

RECEIVED

JAN 09 2003

TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Madison *et al.*

Serial No.: 10/099,700

Filed: March 13, 2002

Conf. No.: 4309

For: *NUCLEIC ACID MOLECULES  
ENCODING A TRANSMEMBRANE  
SERINE PROTEASE 7, THE ENCODED  
POLYPEPTIDES AND METHODS BASED  
THEREON*

Art Unit: 1645

Examiner: Unassigned

TRANSMITTAL LETTER

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Sir:

Transmitted herewith via hand delivery are an Information Disclosure Statement, Form PTO-1449 (36 pages) and cited references for filing in connection with the above-identified application.

- [ X ] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,  
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman  
Registration No. 33,779

**Dated: January 8, 2003**

Attorney Docket No. 24745-1613

**Address all correspondence to:**

Stephanie L. Seidman  
HELLER, EHRMAN, WHITE & McAULIFFE LLP  
4350 La Jolla Village Drive, 7th floor  
San Diego, CA 92122-1246  
Telephone: (858) 450-8400  
Facsimile: (858) 587-5360  
EMAIL: sseidman@hewm.com

RECEIVED

JAN 09 2003

TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Madison *et al.*

Serial No.: 10/099,700

Filed: March 13, 2002

Conf. No.: 4309

For: *NUCLEIC ACID MOLECULES  
ENCODING A TRANSMEMBRANE  
SERINE PROTEASE 7, THE ENCODED  
POLYPEPTIDES AND METHODS BASED  
THEREON*

Art Unit: 1645

Examiner: Unassigned

TRANSMITTAL LETTER

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Sir:

Transmitted herewith via hand delivery are an Information Disclosure Statement, Form PTO-1449 (36 pages) and cited references for filing in connection with the above-identified application.

- [ X ] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted;  
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman  
Registration No. 33,779

**Dated: January 8, 2003**

Attorney Docket No. 24745-1613

**Address all correspondence to:**

Stephanie L. Seidman

HELLER, EHRMAN, WHITE & McAULIFFE LLP

4350 La Jolla Village Drive, 7th floor

San Diego, CA 92122-1246

Telephone: (858) 450-8400

Facsimile: (858) 587-5360

EMAIL: sseidman@hewm.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Madison *et al.*  
Serial No.: 10/099,700  
Filed: March 13, 2002  
Conf. No.: 4309

For: *NUCLEIC ACID MOLECULES  
ENCODING A TRANSMEMBRANE  
SERINE PROTEASE 7, THE ENCODED  
POLYPEPTIDES AND METHODS BASED  
THEREON*

Art Unit: 1645  
Examiner: Unassigned

RECEIVED  
JAN 09 2003  
TECH CENTER 1600/2900

INFORMATION DISCLOSURE STATEMENT IN  
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Dear Sir:

Since this Information Disclosure Statement is filed before the receipt of a first Office Action on the merits for the above-captioned application, no filing fee is due. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (36 pages) and copies of the cited documents are provided herewith.

The cited documents, listed on Forms PTO-1449 and supplied herewith, are in the English language with the exception of items BL, BM and QM, which are in the Japanese language. Items BL (Japanese Patent No. 0037195) and BM (Japanese Patent No. 0078990) are provided with English language equivalents (items AX and BD). An English-language abstract is provided on the last page of item QM (Shiozaki

RECEIVED  
JAN 09 2003  
TECH CENTER 1600/2908

**U.S.S.N. 10/099,700**  
**Madison *et al.***  
**Information Disclosure Statement**

*et al.*). Hence, in accordance with the requirements of 37 C.F.R. § 1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common:

| <u>U.S.S.N.</u> | <u>Filing Date</u> | <u>Docket No.</u> |
|-----------------|--------------------|-------------------|
| 09/444,172      | 11/19/99           | 24745-1604        |
| 09/580,535      | 05/26/00           | 24745-1604B       |
| 09/716,036      | 11/17/00           | 24745-1604C       |
| 09/717,473      | 11/20/00           | 24745-1605        |
| 10/014,171      | 12/11/01           | 24745-1606        |
| 09/776,191      | 02/02/01           | 24745-1607        |
| 10/156,214      | 05/23/02           | 24745-1611        |
| 10/104,271      | 03/20/02           | 24745-1614        |
| 10/112,221      | 03/27/02           | 24745-1615        |
| 10/147,211      | 05/14/02           | 24745-1616        |
| 10/190,030      | 07/03/02           | 24745-1618        |
| 10/267,219      | 10/08/02           | 24745-1621        |
| Unassigned      | 11/20/02           | 24745-1622        |
| 60/357,533      | 02/14/02           | 24745-P1623       |
| 09/657,986      | 09/08/00           |                   |

  

| <u>Int'l App. No.</u> | <u>Filing Date</u> | <u>Docket No.</u> |
|-----------------------|--------------------|-------------------|
| PCT/US01/48032        | 12/11/01           | 24745-1606PC      |
| PCT/US02/16819        | 05/23/02           | 24745-1611PC      |
| PCT/US02/07903        | 03/13/02           | 24745-1613PC      |
| PCT/US02/09039        | 03/20/02           | 24745-1614PC      |
| PCT/US02/09611        | 03/27/02           | 24745-1615PC      |
| PCT/US02/15332        | 05/14/02           | 24745-1616PC      |
| PCT/US02/21208        | 07/03/02           | 24745-1618PC      |
| Unassigned            | 10/08/02           | 24745-1621PC      |
| Unassigned            | 11/20/02           | 24745-1622PC      |

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this

U.S.S.N. 10/099,700

Madison *et al.*

**Information Disclosure Statement**

Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

\* \* \*

Respectfully submitted,  
HELLER EHRMAN WHITE & McAULIFFE LLP

By: \_\_\_\_\_

Stephanie L. Seidman  
Registration No. 33,779

**Dated: January 8, 2003**

Attorney Docket No.: 24745-1613

**Address all correspondence to:**

Stephanie L. Seidman

HELLER EHRMAN WHITE & McAULIFFE LLP

4350 La Jolla Village Drive, 7th Floor

San Diego, California 92122-1246

Telephone: (858) 450-8400

Facsimile: (858) 587-5360

EMAIL: sseidman@hewm.com

RECEIVED  
JAN 09 2003  
TECH CENTER 1600/2900

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24745-1613SERIAL NO.  
10/099,700LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
MADISON et al.FILING DATE  
March 13, 2002GROUP  
1645

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | *Ref.<br>Code | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | NAME              | CLASS | SUB<br>CLASS | FILING<br>DATE |
|---------------------|---------------|-----------------|---|---|---|---|---|---|----------|-------------------|-------|--------------|----------------|
|                     | A             | 3               | 5 | 3 | 6 | 8 | 0 | 9 | 10/27/70 | Applezweig        | 424   | 28           | 02/17/69       |
|                     | B             | 3               | 5 | 9 | 8 | 1 | 2 | 3 | 08/10/71 | Zaffaroni         | 128   | 268          | 04/01/69       |
|                     | C             | 3               | 6 | 3 | 0 | 2 | 0 | 0 | 12/28/71 | Higuchi           | 128   | 260          | 06/09/69       |
|                     | D             | 3               | 6 | 4 | 5 | 0 | 9 | 0 | 02/29/72 | Mochizuki et al.  | 58    | 58           | 06/19/70       |
|                     | E             | 3               | 8 | 4 | 3 | 4 | 4 | 3 | 10/22/74 | Fishman           | 195   | 63           | 03/30/73       |
|                     | F             | 3               | 8 | 4 | 5 | 7 | 7 | 0 | 11/05/74 | Theeuwes et al.   | 128   | 260          | 06/05/72       |
|                     | G             | 3               | 9 | 1 | 6 | 8 | 9 | 9 | 11/04/75 | Theeuwes et al.   | 128   | 260          | 02/07/74       |
|                     | H             | 3               | 9 | 4 | 0 | 4 | 7 | 5 | 02/24/76 | Gross             | 424   | 1            | 07/07/71       |
|                     | I             | 4               | 0 | 0 | 6 | 1 | 1 | 7 | 02/01/77 | Merrifield et al. | 260   | 45.9 NP      | 06/06/75       |
|                     | J             | 4               | 0 | 0 | 8 | 7 | 1 | 9 | 02/22/77 | Theeuwes et al.   | 128   | 260          | 02/02/76       |
|                     | K             | 4               | 1 | 7 | 9 | 3 | 3 | 7 | 12/18/79 | Davis et al.      | 435   | 181          | 07/28/77       |
|                     | L             | 4               | 2 | 4 | 4 | 7 | 2 | 1 | 01/13/81 | Gupta et al.      | 65    | 31           | 01/31/79       |
|                     | M             | 4               | 3 | 0 | 1 | 1 | 4 | 4 | 11/17/81 | Iwashita et al.   | 424   | 78           | 07/10/80       |
|                     | N             | 4               | 4 | 9 | 6 | 6 | 8 | 9 | 01/29/85 | Mitra             | 525   | 54.1         | 12/27/83       |
|                     | O             | 4               | 5 | 0 | 7 | 2 | 3 | 0 | 03/26/85 | Tam et al.        | 260   | 112.5 R      | 05/12/82       |
|                     | P             | 4               | 5 | 2 | 2 | 8 | 1 | 1 | 06/11/85 | Eppstein et al.   | 514   | 2            | 07/08/82       |
|                     | Q             | 4               | 6 | 4 | 0 | 8 | 3 | 5 | 02/03/87 | Shimizu et al.    | 424   | 94           | 10/28/83       |
|                     | R             | 4               | 6 | 7 | 0 | 4 | 1 | 7 | 06/02/87 | Shimizu et al.    | 514   | 6            | 02/21/86       |
|                     | S             | 4               | 6 | 8 | 7 | 6 | 1 | 0 | 08/18/87 | Vassilatos        | 264   | 211.14       | 04/30/86       |
|                     | T             | 4               | 7 | 6 | 9 | 0 | 2 | 7 | 09/06/88 | Baker et al.      | 424   | 493          | 02/24/87       |
|                     | U             | 4               | 7 | 9 | 1 | 1 | 9 | 2 | 12/13/88 | Nakagawa et al.   | 530   | 399          | 06/18/87       |
|                     | V             | 4               | 9 | 0 | 8 | 4 | 0 | 5 | 03/13/90 | Bayer et al.      | 525   | 61           | 01/02/86       |
|                     | W             | 4               | 9 | 4 | 6 | 7 | 7 | 8 | 08/07/90 | Ladner et al.     | 435   | 69.6         | 01/19/89       |

RECEIVED  
JAN 09 2003  
TECH CENTER 1600/2900

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24745-1613SERIAL NO.  
10/099,700LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
MADISON et al.FILING DATE  
March 13, 2002GROUP  
1645

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | *Ref.<br>Code | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | NAME              | CLASS | SUB<br>CLASS | FILING<br>DATE |
|---------------------|---------------|-----------------|---|---|---|---|---|---|----------|-------------------|-------|--------------|----------------|
|                     | X             | 4               | 9 | 5 | 2 | 4 | 9 | 6 | 08/28/90 | Studier et al.    | 435   | 91           | 12/29/86       |
|                     | Y             | 4               | 9 | 8 | 0 | 2 | 8 | 6 | 12/25/90 | Morgan et al.     | 435   | 172.3        | 01/03/89       |
|                     | Z             | 5               | 0 | 5 | 9 | 5 | 9 | 5 | 10/22/91 | Le Grazie         | 424   | 468          | 03/20/90       |
|                     | AA            | 5               | 0 | 7 | 3 | 5 | 4 | 3 | 12/17/91 | Marshall et al.   | 514   | 21           | 07/21/88       |
|                     | AB            | 5               | 1 | 2 | 0 | 5 | 4 | 8 | 06/09/92 | McClelland et al. | 424   | 473          | 11/07/89       |
|                     | AC            | 5               | 2 | 1 | 5 | 8 | 9 | 9 | 06/01/93 | Dattagupta        | 435   | 6            | 08/23/90       |
|                     | AD            | 5               | 2 | 2 | 5 | 5 | 3 | 9 | 07/06/93 | Winter            | 530   | 387.3        | 10/25/91       |
|                     | AE            | 5               | 2 | 7 | 0 | 1 | 7 | 0 | 12/14/93 | Schatz et al.     | 435   | 7.37         | 10/16/91       |
|                     | AF            | 5               | 2 | 9 | 2 | 8 | 1 | 4 | 03/08/94 | Bayer et al.      | 525   | 243          | 03/14/91       |
|                     | AG            | 5               | 3 | 0 | 4 | 4 | 8 | 2 | 04/19/94 | Sambrook et al.   | 435   | 226          | 09/28/90       |
|                     | AH            | 5               | 3 | 3 | 8 | 6 | 6 | 5 | 08/16/94 | Schatz et al.     | 435   | 6            | 10/15/92       |
|                     | AI            | 5               | 3 | 5 | 4 | 5 | 6 | 6 | 10/11/94 | Addesso et al.    | 426   | 9            | 06/02/93       |
|                     | AJ            | 5               | 3 | 8 | 9 | 4 | 4 | 9 | 02/14/95 | Afeyan et al.     | 428   | 523          | 01/05/93       |
|                     | AK            | 5               | 4 | 3 | 6 | 1 | 2 | 8 | 07/25/95 | Harpold et al.    | 435   | 6            | 01/27/93       |
|                     | AL            | 5               | 4 | 8 | 2 | 8 | 4 | 8 | 01/09/96 | Dickson et al.    | 435   | 219          | 02/22/94       |
|                     | AM            | 5               | 4 | 8 | 6 | 6 | 0 | 2 | 01/23/96 | Sambrook et al.   | 536   | 23.2         | 12/17/93       |
|                     | AN            | 5               | 5 | 3 | 4 | 4 | 1 | 8 | 07/09/96 | Evans et al.      | 435   | 69.1         | 12/10/93       |
|                     | AO            | 5               | 5 | 5 | 0 | 0 | 4 | 2 | 08/27/96 | Sambrook et al.   | 435   | 172.1        | 11/13/89       |
|                     | AP            | 5               | 5 | 7 | 1 | 6 | 9 | 6 | 11/05/96 | Evans et al.      | 435   | 69.1         | 11/02/94       |
|                     | AQ            | 5               | 5 | 9 | 1 | 7 | 6 | 7 | 01/07/97 | Mohr et al.       | 514   | 413          | 06/06/95       |
|                     | AR            | 5               | 5 | 9 | 7 | 7 | 0 | 5 | 01/28/97 | Evans et al.      | 435   | 69.1         | 12/10/93       |
|                     | AS            | 5               | 6 | 1 | 2 | 4 | 7 | 4 | 03/18/97 | Patel             | 536   | 27.14        | 06/30/94       |
|                     | AT            | 5               | 6 | 3 | 9 | 4 | 7 | 6 | 06/17/97 | Oshlack et al.    | 424   | 468          | 06/02/95       |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

RECEIVED  
 JAN 9 2003  
 TECH CENTER 1600/2900

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24745-1613SERIAL NO.  
10/099,700LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
MADISON et al.FILING DATE  
March 13, 2002GROUP  
1645

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | *Ref.<br>Code | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | NAME              | CLASS | SUB<br>CLASS | FILING<br>DATE |
|---------------------|---------------|-----------------|---|---|---|---|---|---|----------|-------------------|-------|--------------|----------------|
|                     | AU            | 5               | 6 | 4 | 3 | 5 | 7 | 8 | 07/01/97 | Robinson et al.   | 424   | 210.1        | 01/27/93       |
|                     | AV            | 5               | 6 | 7 | 4 | 5 | 3 | 3 | 10/07/97 | Santus et al.     | 424   | 493          | 05/26/95       |
|                     | AW            | 5               | 7 | 1 | 0 | 0 | 0 | 4 | 01/20/98 | Evans et al.      | 435   | 6            | 08/07/96       |
|                     | AX            | 5               | 7 | 2 | 8 | 5 | 6 | 4 | 03/17/98 | Sambrook et al.   | 435   | 215          | 05/21/96       |
|                     | AY            | 5               | 7 | 3 | 3 | 5 | 6 | 6 | 03/31/98 | Lewis             | 424   | 426          | 10/30/95       |
|                     | AZ            | 5               | 7 | 6 | 7 | 1 | 7 | 4 | 06/16/98 | Nakagawa et al.   | 523   | 217          | 01/27/97       |
|                     | BA            | 5               | 7 | 9 | 2 | 6 | 1 | 6 | 08/11/98 | Persico et al.    | 435   | 7.21         | 06/05/95       |
|                     | BB            | 5               | 7 | 9 | 5 | 8 | 7 | 2 | 08/18/98 | Ricigliano et al. | 514   | 44           | 09/19/95       |
|                     | BC            | 5               | 8 | 6 | 1 | 2 | 7 | 4 | 01/19/99 | Evans et al.      | 435   | 69.1         | 06/07/95       |
|                     | BD            | 5               | 8 | 6 | 6 | 4 | 1 | 3 | 02/02/99 | Sambrook et al.   | 435   | 320.1        | 11/25/97       |
|                     | BE            | 5               | 9 | 0 | 2 | 7 | 2 | 3 | 05/11/99 | Dower et al.      | 435   | 6            | 07/12/96       |
|                     | BF            | 5               | 9 | 2 | 5 | 5 | 2 | 5 | 07/20/99 | Fodor et al.      | 435   | 6            | 04/03/98       |
|                     | BG            | 5               | 9 | 7 | 2 | 6 | 1 | 6 | 10/26/99 | O'Brien et al.    | 435   | 6            | 02/20/98       |
|                     | BH            | 6               | 1 | 2 | 1 | 2 | 3 | 8 | 09/19/00 | Dower et al.      | 514   | 13           | 02/03/99       |
|                     | BI            | 6               | 2 | 7 | 0 | 9 | 8 | 8 | 08/07/01 | Brinkmann et al.  | 435   | 69.1         | 01/27/93       |
|                     | BJ            | 6               | 3 | 2 | 3 | 3 | 3 | 2 | 11/27/01 | Fukuda et al.     | 536   | 23.2         | 01/21/99       |
|                     | BK            | 6               | 3 | 3 | 7 | 0 | 7 | 2 | 01/08/02 | Ford et al.       | 424   | 198.1        | 07/07/99       |

RECEIVED  
JAN 09 2003  
TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL | *Ref.<br>Code | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | COUNTRY | CLASS | SUB<br>CLASS | Translation<br>Yes No |     |
|---------------------|---------------|-----------------|---|---|---|---|---|---|----------|---------|-------|--------------|-----------------------|-----|
|                     | BL            | 0               | 0 | 3 | 7 | 1 | 9 | 5 | 02/08/00 | JP      |       |              |                       | X + |
|                     | BM            | 0               | 0 | 7 | 8 | 9 | 9 | 0 | 03/21/00 | JP      |       |              |                       | X + |
|                     | BN            | 0               | 1 | 2 | 9 | 0 | 5 | 8 | 04/26/01 | PCT A1  |       |              |                       |     |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24745-1613SERIAL NO.  
10/099,700LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
MADISON et al.FILING DATE  
March 13, 2002GROUP  
1645

## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL | *Ref.<br>Code | DOCUMENT NUMBER |   |   |   |   |   |    | DATE     | COUNTRY    | CLASS | SUB<br>CLASS | Translation |    |
|---------------------|---------------|-----------------|---|---|---|---|---|----|----------|------------|-------|--------------|-------------|----|
|                     |               |                 |   |   |   |   |   |    |          |            |       |              | Yes         | No |
|                     | BO            | 0               | 1 | 3 | 6 | 3 | 5 | 1  | 05/25/01 | PCT A2     |       |              |             |    |
|                     | BP            | 0               | 1 | 3 | 6 | 6 | 0 | 4  | 05/25/01 | PCT A2     |       |              |             |    |
|                     | BQ            | 0               | 1 | 3 | 6 | 6 | 4 | 5  | 05/25/01 | PCT A2     |       |              |             |    |
|                     | BR            | 0               | 1 | 4 | 6 | 4 | 0 | 7  | 06/28/01 | PCT A1     |       |              |             |    |
|                     | BS            | 0               | 1 | 5 | 5 | 3 | 0 | 1  | 08/02/01 | PCT A2     |       |              |             |    |
|                     | BT            | 0               | 1 | 5 | 4 | 4 | 7 | 7  | 08/02/01 | PCT A2     |       |              |             |    |
|                     | BU            | 0               | 1 | 5 | 5 | 4 | 4 | 1  | 08/02/01 | PCT A2     |       |              |             |    |
|                     | BV            | 0               | 1 | 5 | 7 | 1 | 9 | 4  | 08/09/01 | PCT A2     |       |              |             |    |
|                     | BW            | 0               | 2 | 0 | 7 | 7 | 2 | 67 | 10/03/02 | PCT A2     |       |              |             |    |
|                     | BX            | 0               | 2 | 1 | 4 | 3 | 4 | 9  | 02/21/02 | PCT A2     |       |              |             |    |
|                     | BY            | 0               | 2 | 2 | 0 | 4 | 7 | 5  | 03/14/02 | PCT A2     |       |              |             |    |
|                     | BZ            | 0               | 3 | 2 | 0 | 3 | 0 | 8  | 06/14/89 | EP B1      |       |              |             |    |
|                     | CA            | 0               | 4 | 6 | 2 | 2 | 0 | 7  | 03/01/90 | EP B1      |       |              |             |    |
|                     | CB            | 0               | 6 | 1 | 3 | 6 | 8 | 3  | 07/09/94 | EP A1 & B1 |       |              |             |    |
|                     | CC            | 1               | 0 | 2 | 9 | 9 | 2 | 1  | 08/23/00 | EP A1      |       |              |             |    |
|                     | CD            | 1               | 1 | 8 | 2 | 2 | 0 | 7  | 02/27/02 | EP A2      |       |              |             |    |
|                     | CE            | 8               | 6 | 0 | 3 | 8 | 4 | 0  | 03/07/86 | PCT        |       |              |             |    |
|                     | CF            | 8               | 8 | 0 | 9 | 8 | 1 | 0  | 12/15/88 | PCT        |       |              |             |    |
|                     | CG            | 8               | 9 | 1 | 0 | 1 | 3 | 4  | 11/02/89 | PCT        |       |              |             |    |
|                     | CH            | 9               | 0 | 1 | 0 | 6 | 4 | 9  | 09/20/90 | PCT        |       |              |             |    |
|                     | CI            | 9               | 0 | 1 | 1 | 3 | 6 | 4  | 10/04/90 | PCT        |       |              |             |    |
|                     | CJ            | 9               | 0 | 1 | 3 | 6 | 7 | 8  | 11/15/90 | PCT        |       |              |             |    |
|                     | CK            | 9               | 2 | 0 | 6 | 1 | 8 | 0  | 04/16/92 | PCT        |       |              |             |    |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

RECEIVED  
 JAN 09 2003  
 TECH CENTER 1600/2900

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL | *Ref.<br>Code | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | COUNTRY | CLASS | SUB<br>CLASS | Translation |    |
|---------------------|---------------|-----------------|---|---|---|---|---|---|----------|---------|-------|--------------|-------------|----|
|                     |               |                 |   |   |   |   |   |   |          |         |       |              | Yes         | No |
|                     | CL            | 9               | 2 | 0 | 6 | 2 | 0 | 3 | 04/16/92 | PCT     |       |              |             |    |
|                     | CM            | 9               | 2 | 2 | 0 | 3 | 1 | 6 | 11/26/92 | PCT     |       |              |             |    |
|                     | CN            | 9               | 2 | 2 | 2 | 6 | 3 | 5 | 12/23/92 | PCT     |       |              |             |    |
|                     | CO            | 9               | 3 | 1 | 4 | 1 | 8 | 8 | 07/22/93 | PCT     |       |              |             |    |
|                     | CP            | 9               | 3 | 2 | 0 | 2 | 2 | 1 | 10/14/93 | PCT     |       |              |             |    |
|                     | CQ            | 9               | 3 | 2 | 5 | 2 | 2 | 1 | 23/12/93 | PCT     |       |              |             |    |
|                     | CR            | 9               | 4 | 0 | 8 | 5 | 9 | 8 | 04/28/94 | PCT     |       |              |             |    |
|                     | CS            | 9               | 4 | 1 | 7 | 7 | 8 | 4 | 18/08/94 | PCT     |       |              |             |    |
|                     | CT            | 9               | 5 | 1 | 1 | 7 | 5 | 5 | 05/04/95 | PCT     |       |              |             |    |
|                     | CU            | 9               | 5 | 3 | 4 | 3 | 2 | 6 | 12/21/95 | PCT     |       |              |             |    |
|                     | CV            | 9               | 7 | 3 | 9 | 0 | 2 | 1 | 10/23/97 | PCT     |       |              |             |    |
|                     | CW            | 9               | 7 | 4 | 7 | 3 | 1 | 4 | 12/18/97 | PCT     |       |              |             |    |
|                     | CX            | 9               | 8 | 2 | 1 | 3 | 2 | 0 | 05/22/98 | PCT     |       |              |             |    |
|                     | CY            | 9               | 8 | 3 | 2 | 6 | 1 | 9 | 07/01/99 | PCT     |       |              |             |    |

RECEIVED  
JAN 9 2003  
TECH CENTER 1600/2900

X + = An English language equivalent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| CZ | Abraham <i>et al.</i> , "Immunochemical Identification of the Serine Protease Inhibitor $\alpha_1$ -Antichymotrypsin in the Brain Amyloid Deposits of Alzheimer's Disease", <i>Cell</i> , <u>52</u> :487-501 (1988) |
| DA | Adams <i>et al.</i> , "The <i>c-myc</i> oncogene driven by immunoglobulin enhancers induces lymphoid malignancy in transgenic mice", <i>Nature</i> , <u>318</u> :533-538 (1985)                                     |
| DB | Alam <i>et al.</i> , "Reporter Genes: Application to the Study of Mammalian Gene Transcription", <i>Anal. Biochem.</i> , <u>188</u> :245-254 (1990)   |
| DC | Alexander <i>et al.</i> , "Expression of the <i>c-myc</i> Oncogene under Control of an Immunoglobulin Enhancer in <i>Eμ-myc</i> Transgenic Mice", <i>Mol. Cell Biol.</i> , <u>7</u> (4):1436-1444 (1987)            |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| DD | Alonso <i>et al.</i> , "Effects of synthetic urokinase inhibitors on local invasion and metastasis in a murine mammary tumor model", <i>Breast Cancer Res. Treat.</i> , <u>40</u> :209-223 (1996)   |
| DE | Avery <i>et al.</i> , "Systemic Amiloride Inhibits Experimentally Induced Neovascularization", <i>Arch. Ophthalmol.</i> , <u>108</u> :1474-1476 (1990)  |
| DF | Bains <i>et al.</i> , "Effects of LEX032, a novel recombinant serine protease inhibitor, on N <sup>ε</sup> -nitro-L-arginine methyl ester induced leukocyte-endothelial cell", <i>Eur. J. Pharmacol.</i> , <u>356</u> :67-72 (1998)         |
| DG | Baker <i>et al.</i> , "A Scintillation Proximity Assay for UDP-GalNAc:Polypeptide, N-Acetylgalactosaminyltransferase", <i>Anal. Biochem.</i> , <u>239</u> :20-24 (1996)   |
| DH | Bannwarth <i>et al.</i> , "Global Phosphorylation Of Peptides Containing Oxidation-Sensitive Amino Acids", <i>Bioorganic &amp; Medicinal Chem. Lett.</i> , <u>6</u> (17):2141-2146 (1996)   |
| DI | Bartel <i>et al.</i> , "Isolation of New Ribozymes from a Large Pool of Random Sequences", <i>Science</i> , <u>261</u> :1411-1418 (1993)  |
| DJ | Bassell-Duby <i>et al.</i> , "Tyrosine 67 in the Epidermal Growth Factor-like Domain of Tissue-type Plasminogen Activator Is Important for Clearance by a Specific Hepatic Receptor", <i>J Biol Chem</i> , <u>267</u> (14):9668-9677 (1992) |
| DK | Batra <i>et al.</i> , "Insertion of Constant Region Domains of Human IgG, Into CD4-PE40 Increases Its Plasma Half-life", <i>Molecular Immunol.</i> , <u>30</u> (4):379-386 (1993)   |
| DL | Baum <i>et al.</i> , "Development of a Scintillation Proximity Assay for Human Cytomegalovirus Protease Using <sup>33</sup> Phosphorous", <i>Anal. Biochem.</i> , <u>237</u> :129-134 (1996)  |
| DM | Baumbach <i>et al.</i> , "Protein Purification Using Affinity Ligands Deduced from Peptide Libraries", <i>BioPharm.</i> , May ed., 24-35 (1992)   |
| DN | Beck <i>et al.</i> , "Identification of Efficiently Cleaved Substrates for HIV-1 Protease Using a Phage Display Library and Use in Inhibitor Development", <i>Virology</i> , <u>274</u> (2):391-401 (2000)                                  |
| DO | Benoist <i>et al.</i> , "In vivo sequence requirements of the SV40 early promoter region", <i>Nature</i> , <u>290</u> :304-310 (1981)   |
| DP | Benton <i>et al.</i> , "Screening $\lambda$ gt Recombinant Clones by Hybridization to Single Plaques in situ", <i>Science</i> , <u>196</u> :180-182 (1977)  |
| DQ | Berg <i>et al.</i> , "Long-Chain Polystyrene-Grafted Polyethylene Film Matrix: A New Support for Solid-Phase Peptide Synthesis", <i>J. Am. Chem. Soc.</i> , <u>111</u> :8024-8026 (1989)  |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| DR | Berg <i>et al.</i> , Book: "Peptide Synthesis on Polystyrene-Grafted Polyethylene Sheets", <u>Pept. Proc. 20th Eur. Pept. Symp.</u> , Jung, G. et al., Eds, pp. 196-198 (1988)  |
| DS | Berg <i>et al.</i> , Book: "Polystyrene-Grafted Polyethylene: Design of Film and Felt Matrices for Solid-Phase Peptide Synthesis", <u>Innovation Perspect. Solid Phase Synth. Collect. Pap.</u> , Int. Symp., 1st Epton, Roger, Ed., pp. 453-459 (1990)                         |
| DT | Berger <i>et al.</i> , "Structure of the mouse gene for the serine protease inhibitor neuroserpin (PI12)", <u>Gene</u> , 214:25-33 (1998)   |
| DU | Berger <i>et al.</i> , "Structure of the mouse gene for the serine protease inhibitor neuroserpin (PI12)", <u>Gene</u> , 214:25-33 (1998)   |
| DV | Berger <i>et al.</i> , "Structure of the mouse gene for the serine protease inhibitor neuroserpin (PI12)", <u>Gene</u> , 214:25-33 (1998)   |
| DW | Bernstein <i>et al.</i> , "Role for a bidentate ribonuclease in the initiation step of RNA interference", <u>Nature</u> , 409:363-366 (2001)  |
| DX | Billström <i>et al.</i> , "The Urokinase Inhibitor p-Aminobenzamidine Inhibits Growth of a Human Prostate Tumor in SCID Mice", <u>Int. J. Cancer</u> , 61:542-547 (1995)  |
| DY | Blaney <i>et al.</i> , "Computational approaches for combinatorial library design and molecular diversity analysis", <u>Curr. Opin. Chem. Biol.</u> , 1:54-59 (1997)  |
| DZ | Blanton <i>et al.</i> , "Characterization of a native and recombinant <i>Schistosoma haematobium</i> serine protease inhibitor gene product", <u>Mol. Biochem. Parasitol.</u> , 63:1-11 (1994)  |
| EA | Bock <i>et al.</i> , "Isolation of Human Blood Coagulation $\alpha$ -Factor X <sub>3</sub> by Soybean Trypsin Inhibitor-Sepharose Chromatography and Its Active-Site Titration with Fluorescein Mono-p-guanidinobenzoate", <u>ARCH Biochem Biophys</u> , 273(2):375-388 (1989)  |
| EB | Bock <i>et al.</i> , "Selection of single-stranded DNA molecules that bind and inhibit human thrombin", <u>Nature</u> , 355:564-566 (1992)  |
| EC | Boesen <i>et al.</i> , "Circumvention of chemotherapy-induced myelosuppression by transfer of the <i>mdr1</i> gene", 6:291-302 (1994)   |
| ED | Borman, S., "Scientists Refine Understanding Of Protein Folding And Design", <u>Chem. Eng. News</u> , 2(12):29-35 (1996)  |
| EE | Boublik <i>et al.</i> , "Eukaryotic Virus Display: Engineering the Major Surface Glycoprotein of the <i>Autographa californica</i> Nuclear Polyhedrosis Virus (AcNPV) for the Presentation of Foreign Proteins on the Virus Surface", <u>Bio/Technol.</u> , 13:1079-1084 (1995) |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| EF | Bourinbaier <i>et al.</i> , "Effect of Serine Protease Inhibitor, <i>N</i> - $\alpha$ -Tosyl-L-lysyl-Chloromethyl Ketone (TLCK), on Cell-Mediated and Cell-Free HIV-1 Spread", <i>Cell. Immuno.</i> , <u>155</u> :230-236 (1994)      |
| EG | Bout <i>et al.</i> , "Lung Gene Therapy: <i>In Vivo</i> Adenovirus-Mediated Gene Transfer to Rhesus Monkey Airway Epithelium", <i>Human Gene Therapy</i> , <u>5</u> :3-10 (1994)  |
| EH | Braunwalder <i>et al.</i> , "Application of Scintillating Microtiter Plates to Measure Phosphopeptide Interactions with the GRB2-SH2 Binding Domain", <i>J. Biomol. Screening</i> , <u>1</u> (1):23-26 (1996)                         |
| EI | Brenner <i>et al.</i> , "Encoded combinatorial chemistry", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :5381-5383 (1992)  |
| EJ | Brinster <i>et al.</i> , "Regulation of metallothionein-thymidine kinase fusion plasmids injected into mouse eggs", <i>Nature</i> , <u>296</u> :39-42 (1982)  |
| EK | Brooks <i>et al.</i> , "Use of the 10-Day-Old Chick Embryo Model for Studying Angiogenesis", <i>Methods in Molecular Biology</i> , <u>129</u> :257-269 (1999)   |
| EL | Bunin <i>et al.</i> , "A General and Expedient Method for the Solid-Phase Synthesis of 1,4-Benzodiazepine Derivatives", <i>J. Am. Chem. Soc.</i> , <u>114</u> :10997-10998 (1992)   |
| EM | Bunin <i>et al.</i> , "The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :4708-4712 (1994)   |
| EN | Butz <i>et al.</i> , "Immunization and Affinity Purification of Antibodies Using Resin-Immobilized Lysine-Branched Synthetic Peptides", <i>Peptide Res.</i> , <u>7</u> (1):20-23 (1994)   |
| EO | Cafilisch <i>et al.</i> , "Computational combinatorial chemistry for de novo ligand design: Review and assessment", <i>Perspectives in Drug Discovery and Design</i> , <u>3</u> :51-84 (1995)   |
| EP | Capecchi <i>et al.</i> , "Altering the Genome by Homologous Recombination", <i>Science</i> , <u>244</u> :1288-1292 (1989)   |
| EQ | Carrillo <i>et al.</i> , "The Multiple Sequence Alignment Problem in Biology", <i>SIAM J Appl Math.</i> , <u>48</u> (5):1073-1082 (1988)  |
| ER | Chen <i>et al.</i> , "Analogous" Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis", <i>J. Am. Chem. Soc.</i> , <u>116</u> :2661-2662 (1994)                           |
| ES | Chen <i>et al.</i> , "IL-1 $\beta$ Induces Serine Protease Inhibitor 3 (SPI-3) Gene Expression in Rat Pancreatic $\beta$ -Cells. Detection by Differential display of Messenger RNA", <i>CYTOKINE</i> , <u>11</u> (11):856-862 (1999) |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

RECEIVED  
 JAN 9 2003  
 TECH CENTER 1600/2003

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| ET | Chen <i>et al.</i> , "Interaction of Phosphorylated FcγRIγ Immunoglobulin Receptor Tyrosine Activation Motif-based Peptides with Dual and Single SH2 Domains of p72 <sup>syk</sup> ", <i>J. Biol. Chem.</i> , <u>271</u> (41):25308-25315 (1996)  |
| EU | Cheng <i>et al.</i> , "Sequence-Selective Peptide Binding with a Peptido-A,B- <i>trans</i> -steroidal Receptor Selected from an Encoded Combinatorial Receptor Library", <i>J. Am. Chem. Soc.</i> , <u>118</u> :1813-1814 (1996)  |
| EV | Chu <i>et al.</i> , "Using Affinity Capillary Electrophoresis To Identify the Peptide in a Peptide Library that Binds Most Tightly to Vancomycin", <i>J. Org. Chem.</i> , <u>58</u> :648-652 (1993)   |
| EW | Chuang <i>et al.</i> , "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ", <i>PNAS</i> , <u>97</u> (9):4985-4990 (2000)   |
| EX | Clackson <i>et al.</i> , "Making antibody fragments using phage display libraries", <i>Nature</i> , <u>352</u> :624-628 (1991)  |
| EY | Cline <i>et al.</i> , "Perspectives for Gene Therapy: Inserting New Genetic Information into Mammalian Cells by Physical Techniques and Viral Vectors", <i>Pharmac. Ther.</i> , <u>29</u> :69-92 (1985)   |
| EZ | Clowes <i>et al.</i> , "Long-Term Biological Response of Injured Rat Carotid Artery Seeded with Smooth Muscle Cells Expressing Retrovirally Introduced Human Genes", <i>J. Clin. Invest.</i> , <u>93</u> :644-651 (1994)  |
| FA | Cole <i>et al.</i> , in <u>Monoclonal Antibodies and Cancer Therapy</u> , "The EBV-Hybridoma Technique and Its Application to Human Lung Cancer", <i>Alan R. Liss, Inc.</i> , pages 77-96 (1985)  |
| FB | Combs <i>et al.</i> , "Protein Structure-Based Combinatorial Chemistry: Discovery of Non-Peptide Binding Elements to Src SH3 Domain", <i>J. Am. Chem. Soc.</i> , <u>118</u> :287-288 (1996)   |
| FC | Coombs <i>et al.</i> , "Revisiting Catalysis by Chymotrypsin Family Serine Proteases Using Peptide Substrates and Inhibitors with Unnatural Main Chains", <i>J. Biol. Chem.</i> , <u>274</u> (34):24074-24079 (1999)  |
|    | Coombs <i>et al.</i> , "Substrate specificity of prostate-specific antigen (PSA)", <i>Chem. Biol.</i> , <u>5</u> (9):475-488 (1998)   |
|    | Coombs <i>et al.</i> , "Directing Sequence-Specific Proteolysis to New Targets. The Influence Of Loop Size And Target Sequence Of Selective Proteolysis By Tissue-Type Plasminogen Activator And Urokinase-Type Plasminogen Activator", <i>J. Biol. Chem.</i> , <u>273</u> (8):4323-4328 (1998) |

TECH CENTER 1600/2900

JAN 09 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| FF | Coombs <i>et al.</i> , "Distinct Mechanisms Contribute to Stringent Substrate Specificity of Tissue-type Plasminogen Activator", <i>J. Biol. Chem.</i> , <u>271</u> (8):4461-4467 (1996)                |
| FG | Cote <i>et al.</i> , "Generation of human monoclonal antibodies reactive with cellular antigens", <i>Proc. Natl. Acad. Sci. USA</i> , <u>80</u> :2026-2030 (1983)                                       |
| FH | Cotten <i>et al.</i> , "Receptor-Mediated Transport of DNA into Eukaryotic Cells", <i>Meth. Enzymol.</i> , <u>218</u> :619-644 (1993)   |
| FI | Crowley <i>et al.</i> , "Prevention of metastasis by inhibition of the urokinase receptor", <i>Proc. Natl. Acad. Sci. USA</i> , <u>90</u> :5021-5025 (1993)   |
| FJ | Cumber <i>et al.</i> , "Structural Features of the Antibody-A Chain Linkage that Influences the Activity and Stability of Ricin A Chain Immunotoxins", <i>Bioconj. Chem.</i> , <u>3</u> :397-401 (1992) |
| FK | <u>Current Protocols in Molecular Biology</u> , Book: Chapter 16, John Wiley & Sons, Inc. (1990)  |
| FL | <u>Current Protocols in Molecular Biology</u> , Book: Chapter 10, John Wiley & Sons, Inc. (2001)  |
| FM | Cwirla <i>et al.</i> , "Peptides on phage: A vast library of peptides for identifying ligands", <i>Proc. Natl. Acad. Sci. USA</i> , <u>87</u> :6378-6382 (1990)   |
| FN | DATABASE EMBL Accession number AF064819, October 28, 1999, J.C. Lang and D.E. Schuller: "Homo sapiens serine protease DESC1 MRNA", XP002166624, abstract  |
| FO | De Boer <i>et al.</i> , "The <i>tac</i> promoter: A functional hybrid derived from the <i>trp</i> and <i>lac</i> promoters", <i>Proc. Natl. Acad. Sci. USA</i> , <u>80</u> :21-25 (1983)                |
| FP | Delaria <i>et al.</i> , "Characterization of Placental Bikunin, a Novel Human Serine Protease Inhibitor", <i>J. Biol. Chem.</i> , <u>272</u> (18):12209-12214 (1997)                                    |
| FQ | Devlin <i>et al.</i> , "Random Peptide Libraries: A Source of Specific Protein "Binding Molecules", <i>Science</i> , <u>249</u> :404-406 (1990)   |
| FR | DeWitt <i>et al.</i> , "Diversomers: An approach to nonpeptide, nonoligomeric chemical diversity", <i>Proc. Natl. Acad. Sci. USA</i> , <u>90</u> :6909-6913 (1993)                                      |
| FS | Dexter <i>et al.</i> , "Conditions Controlling the proliferation of Haemopoietic Stem Cells In Vitro", <i>J. Cell. Physiol.</i> , <u>91</u> :335-344 (1976)   |
| FT | Ding <i>et al.</i> , "Origins of the specificity of tissue-type plasminogen activator", <i>Proc. Natl. Acad. Sci. USA</i> , <u>92</u> (17):7627-7631 (1995)   |

RECEIVED  
JAN 9 2003  
TECH CENTER 1600/2300

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |
|----|--|
| FU | Dower <i>et al.</i> , "The Search for Molecular Diversity (II): Recombinant and Synthetic Randomized Peptide Libraries", <i>An. Rep. Med. Chem.</i> , <u>26</u> :271-280 (1991)  |
| FV | Dryjanski <i>et al.</i> , "N-Tosyl-L-phenylalanine Chloromethyl Ketone, a Serine Protease Inhibitor, Identifies Glutamate 398 at the Coenzyme-Binding Site of Human Aldehyde Dehydrogenase. Evidence for a Second "Naked Anion" at the Active Site", <i>Biochem.</i> , <u>37(40)</u> :14151-14156 (1998) |
| FW | Dufer <i>et al.</i> , "Differential Effect of the Serine Protease Inhibitor Phenyl Methyl Sulfonyl Fluoride on Cytochemically Detectable Esterases in Human Leucocytes and Platelets", <i>Scand. J. Haematol.</i> , <u>32(1)</u> :25-32 (1984)   |
| FX | Eck <i>et al.</i> , "Structure of TNF- $\alpha$ : Implications for Receptor Binding", <i>J. Biol. Chem.</i> , <u>26</u> :17605 (1989)  |
| FY | Eck <i>et al.</i> , "The Structure of Tumor Necrosis Factor- $\alpha$ at 2.6 Å Resolution", <i>J Biol Chem</i> , <u>264(29)</u> :17595-17605 (1989)  |
| FZ | Ecker <i>et al.</i> , "Combinatorial Drug Discovery: Which Methods Will Produce the Greatest Value?", <i>Bio/Technol.</i> , <u>13</u> :351-360 (1995)  |
| GA | Edwards <i>et al.</i> , "Inhibition of elastase by a synthetic cotton-bound serine protease inhibitor: in vitro kinetics and inhibitor release", <i>Wound Repair Regen.</i> , <u>7(2)</u> :106-118 (1999)  |
| GB | Eichler <i>et al.</i> , "Identification of Substrate-Analog Trypsin Inhibitors through the Screening of Synthetic Peptide Combinatorial Libraries", <i>Biochem.</i> , <u>32</u> :11035-11041 (1993)  |
| GC | Elbashir <i>et al.</i> , "Duplexed of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", <i>Nature</i> , <u>411</u> :494-498 (2001)   |
| GD | Elbashir <i>et al.</i> , "RNA interference is mediated by 21- and 22-nucleotide RNAs", <i>Genes &amp; Develop.</i> , <u>15</u> :188-200 (2001)   |
| GE | Ellington <i>et al.</i> , "In vitro selection of RNA molecules that bind specific ligands", <i>Nature</i> , <u>346</u> :818-822 (1990)   |
| GF | Erickson <i>et al.</i> , "Design, Activity, and 2.8 Å Crystal Structure of a C <sub>2</sub> Symmetric Inhibitor Complexed to HIV-1 Protease", <i>Science</i> , <u>249</u> :527-533 (1990)  |
| GG | Erickson <i>et al.</i> , Book: <i>The Proteins</i> , "Solid-Phase Peptide Synthesis", Volume II, Neurath H., Hill, R.L. Eds., Academic Press, New York, pp. 255-257 (1976)   |
| GH | Evans <i>et al.</i> , "Design of Nonpeptidal Ligands for a Peptide Receptor: Cholecystokinin Antagonists", <i>J. Med. Chem.</i> , <u>30</u> :1229-1239 (1987)  |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**



|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |
|----|--|
| GI | Farley <i>et al.</i> , "Cloning and sequence analysis of rat hepsin, a cell surface serine proteinase", <i>BioChem. Biophys. Acta</i> , <u>1173</u> :350-352 (1993)  |
| GJ | Fattom <i>et al.</i> , "Comparative Immunogenicity of Conjugates Composed of the <i>Staphylococcus aureus</i> Type 8 Capsular Polysaccharide Bound to Carrier Proteins by Adipic Acid Dihydrazide or <i>N</i> -Succinimidyl-3-(2-Pyridyldithio)propionate", <i>Infection &amp; Immun.</i> , <u>60</u> (1):584-589 (1992) |
| GK | Fauchere, "Elements for the Rational Design of Peptide Drugs", <i>Adv. Drug Res.</i> , <u>15</u> :29-69 (1986)   |
| GL | Fay <i>et al.</i> , "Platelets inhibit fibrinolysis in vitro by both plasminogen activator inhibitor dependent and -independent mechanisms", <i>Blood</i> , <u>83</u> (2):351-356 (1994)   |
| GM | Felici, F., "Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector", <i>J. Mol. Biol.</i> , <u>222</u> :301-310 (1991)  |
| GN | Feinstein <i>et al.</i> , "Thrombin, Collagen and A23187 Stimulated Endogenous Platelet Arachidonate Metabolism: Differential Inhibition by PGE <sub>1</sub> , Local Anesthetics and a Serine-Protease Inhibitor", <i>Prostaglandins</i> , <u>14</u> (6):1075-1093 (1977)  |
| GO | Fire <i>et al.</i> , "Potent and specific genetic interference by double-stranded RNA in <i>Caenorhabditis elegans</i> ", <i>Nature</i> , <u>391</u> :806-811 (1998)   |
| GP | Fire, A., "RNA-triggered gene silencing", <i>Trends in Genetics</i> , <u>15</u> (9):358-363 (1999)   |
| GQ | Fodor <i>et al.</i> , "Light-Directed, Spatially Addressable Parallel Chemical Synthesis", <i>Science</i> , <u>251</u> :767-773 (1991)   |
| GR | Forney <i>et al.</i> , "Interaction of the human Serine Protease Inhibitor $\alpha$ -1-Antitrypsin with <i>Cryptosporidium Parvum</i> ", <i>J. Parasitol.</i> , <u>82</u> (3):496-502 (1996)   |
| GS | Franceschini <i>et al.</i> , "Polysialyltransferase ST8Sia II (STX) polysialylates all of the major isoforms of NCAM and facilitates neurite outgrowth", <i>Glycobiol.</i> , <u>11</u> (3):231-239 (2001)  |
| GT | Francisco <i>et al.</i> , "Transport and anchoring of $\beta$ -lactamase to the external surface of <i>Escherichia coli</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :2713-2717 (1992)   |
| GU | Friedrich <i>et al.</i> , "Catalytic Domain Structures of MT-SP1/Matriptase, a Matrix-degrading Transmembrane Serine Proteinase", <i>J Bio Chem</i> , <u>277</u> (3):2160-2168 (2002)  |
| GV | Fujise <i>et al.</i> , "A tissue plasminogen activator/P-selectin fusion protein is an effective thrombolytic agent", <i>Circulation</i> , <u>95</u> (3):715-722 (1997)  |

TECH CENTER 1600/2900

JAN 09 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | GW | Gallop <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries", <i>J. Med. Chem.</i> , <u>37</u> (9):1233-1251 (1994)   |
|  | GX | Gante, "Peptidomimetics-tailored Enzyme Inhibitors", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>33</u> :1699-1720 (1994)   |
|  | GY | Garcia <i>et al.</i> , "The E. coli dnaY Gene Encodes an Arginine Transfer RNA", <i>Cell</i> <u>45</u> : 453-459 (1986)   |
|  | GZ | Gardner <i>et al.</i> , "The complete nucleotide sequence of an infectious clone of cauliflower mosaic virus by M13mp7 shotgun sequencing", <i>Nucleic Acids. Res.</i> , <u>9</u> (12):2871-2888 (1981)   |
|  | HA | Gautier <i>et al.</i> , " $\alpha$ -DNA IV: $\alpha$ -anomeric and $\beta$ -anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physicochemical properties and poly (rA) binding", <i>Nucl. Acids Res.</i> , <u>15</u> :6625-6641 (1987) |
|  | HB | Gavazzi <i>et al.</i> , "Responsiveness of sympathetic and sensory iridial nerves to NGF treatment in young and aged rats", <i>Neurobiol. of Aging</i> , <u>22</u> :287-297 (2001)  |
|  | HC | Georgiou <i>et al.</i> , "Practical applications of engineering Gram-negative bacterial cell surfaces", <i>TIBTECH</i> , <u>11</u> :6-10 (1993)   |
|  | HD | Gething <i>et al.</i> , "Variants of human tissue-type plasminogen activator that lack specific structural domains of the heavy chain", <i>EMBO J.</i> , <u>7</u> (9):2731-2740 (1988)  |
|  | HE | Geysen <i>et al.</i> , "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid", <i>Proc. Natl. Acad. Sci. USA</i> , <u>81</u> :3998-4002 (1984)  |
|  | HF | Ghendler <i>et al.</i> , "Schistosoma mansoni: Isolation and Characterization of Smpi56, a Novel Serine Protease Inhibitor", <i>Exp. Parasitol.</i> , <u>78</u> :121-131 (1994)   |
|  | HG | Gilbert <i>et al.</i> , "Useful Proteins from Recombinant Bacteria", <i>Scientific American</i> , <u>242</u> :79-94 (1980)  |
|  | HH | Glaser <i>et al.</i> , "Antibody Engineering by Condon-Based Mutagenesis in a Filamentous Phage Vector System", <i>J. Immunol.</i> , <u>149</u> (12):3903-3913 (1992)   |
|  |    | Goldmacher <i>et al.</i> , "Photoactivation of "Toxin Conjugates", <i>Bioconj. Chem.</i> , <u>3</u> :104-107 (1992)   |
|  | HJ | Goldspiel <i>et al.</i> , "Human gene therapy", <i>Clinical Frontiers, Clinical Pharmacy</i> , <u>12</u> :488-505 (1993)  |

TECH CENTER 1690/2900

JAN 9 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | HK | Gonzalez <i>et al.</i> , "Voltage Sensing by Fluorescence Resonance Energy Transfer in Single Cells", <i>Biophys. J.</i> , <u>69</u> :1272-1280 (1995)   |
|  | HL | Gram <i>et al.</i> , "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :3576-3580 (1992)                                     |
|  | HM | Grosschedl <i>et al.</i> , "Introduction of a $\mu$ Immunoglobulin Gene into the Mouse Germ Line: Specific Expression in Lymphoid Cells and Synthesis of Functional Antibody", <i>Cell</i> , <u>38</u> :647-658 (1984)                 |
|  | HN | Grossman <i>et al.</i> , "Retroviruses: delivery vehicle to the liver", <i>Curr. Opin. in Genetics and Devel.</i> , <u>3</u> :110-114 (1993)   |
|  | HO | Grunstein <i>et al.</i> , "Colony hybridization: A method for the isolation of cloned DNAs that contain a specific gene", <i>Proc. Natl. Acad. Sci. USA</i> , <u>72</u> (10):3961-3965 (1975)  |
|  | HP | Hamdaoui <i>et al.</i> , "Purification of a Novel, Heat-Stable Serine Protease Inhibitor Protein from Ovaries of the Desert Locust, <i>Schistocerca gregaria</i> ", <i>Biochem. Biophys. Res. Commun.</i> , <u>238</u> :357-360 (1997) |
|  | HQ | Hameed <i>et al.</i> , "3,4-Dichloroisocoumarin Serine Protease Inhibitor Induces DNA Fragmentation and Apoptosis in susceptible Target Cells", <i>DCI AND APOPTOSIS, Proc. Soc. Exp. Biol. Med.</i> , <u>219</u> (2):132-137 (1998)   |
|  | HR | Hamilton <i>et al.</i> , "A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants", <i>Science</i> , <u>286</u> :950-952 (1999)   |
|  | HS | Hammer <i>et al.</i> , "Diversity of Alpha-Fetoprotein Gene Expression in Mice Is Generated by a Combination of Separate Enhancer Elements", <i>Science</i> , <u>235</u> :53-58 (1987)   |
|  | HT | Hammond <i>et al.</i> , "An RNA-directed nuclease mediates post-transcriptional gene silencing in <i>Drosophila</i> cell", <i>Nature</i> , <u>404</u> :293-296 (2000)  |
|  | HU | Hammond <i>et al.</i> , "Post-Transcriptional Gene Silencing by Double-Stranded RNA", <i>Nature</i> , <u>2</u> :110-119 (2001)   |
|  | HV | Han <i>et al.</i> , "Liquid-Phase Combinatorial Synthesis", <i>Proc. Natl. Acad. Sci. USA</i> , <u>92</u> :6419-6423 (1995)  |
|  | HW | Hanahan, D., "Heritable formation of pancreatic $\beta$ -cell tumours in transgenic mice expressing recombinant insulin/simian virus 40 oncogenes", <i>Nature</i> , <u>315</u> :115-122 (1985)   |
|  | HX | Harper <i>et al.</i> , "Reaction of Serine Proteases with Substituted Isocoumarins: Discovery of 3,4-Dichloroisocoumarin, a New General Mechanism Based Serine Protease Inhibitor" <i>Biochem.</i> , <u>24</u> :1831-1841 (1985)       |

TECH CENTER 1600/2900  
JAN 9 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | HY | Hazum <i>et al.</i> , "A Photocleavable Protecting Group for the Thiol Function of Cysteine", Department of Organic Chemistry, The Weizmann Institute of Science Rehovot, Israel, <i>Pept., Proc. Eur. Pept. Symp.</i> , 16th, Brunfeldt, K (Ed), pages 105-110 (1981) |
|  | HZ | Herrera-Estrella <i>et al.</i> , "Expression of chimeric genes transferred into plant cells using a Ti-plasmid-derived vector", <i>Nature</i> , 303:209-213 (1984)   |
|  | IA | Herrera-Estrella <i>et al.</i> , "Light-inducible and chloroplast-associated expression of a chimeric gene introduced into <i>Nicotiana tabacum</i> using a Ti plasmid vector", <i>Nature</i> , 310:115-120 (1984)   |
|  | IB | Hervio <i>et al.</i> , "Negative selectivity and the evolution of protease cascades: the specificity of plasmin for peptide and protein substrates", <i>Chem. Biol.</i> , 7(6):443-452 (2000)  |
|  | IC | Hesse <i>et al.</i> , "Effects of the Serine Protease Inhibitor Gabexate Mesilate on Purified Pancreatic Phospholipase A <sub>2</sub> ", <i>Pharmacol. Res. Commun.</i> , 16(7):637-645 (1984)   |
|  | ID | Hill <i>et al.</i> , "A new intracellular serine protease inhibitor expressed in the rat pituitary gland complexes with granzyme B", <i>FEBS Lett.</i> , 440:361-364 (1998)  |
|  | IE | Hiwasa <i>et al.</i> , "Potent growth-suppressive activity of a serine protease inhibitor, ONO-3403, toward malignant human neuroblastoma cell lines", <i>Cancer Lett.</i> , 126:221-225 (1998)  |
|  | IF | Holmes, "Primary Structure of Human $\alpha_2$ -Antiplasmin, a serine Protease Inhibitor (Serpine)", <i>J. Biol. Chem.</i> , 262(4):1659-1664 (1987)   |
|  | IG | Holstein <i>et al.</i> , "The primitive metazoan <i>Hydra</i> expresses antistasin, a serine protease inhibitor of vertebrate blood coagulation: cDNA cloning, cellular localisation and developmental regulation", <i>FEBS Lett.</i> , 309(3):288-292 (1992)          |
|  | IH | Hoogenboom, <i>et al.</i> , "Multi-Subunit Proteins on the Surface of Filamentous Phage: Methodologies for Displaying Antibody (Fab) Heavy and Light Chains", <i>Nucleic Acids Res.</i> , 19(15):4133-4137 (1991)  |
|  | II | Hooper <i>et al.</i> , "Type II Transmembrane Serine Proteases", <i>J. Biol. Chem.</i> , 276:857-860 (2001)  |
|  | IJ | Houenou <i>et al.</i> , "A serine protease inhibitor, protease nexin I, rescues motoneurons from naturally occurring and axotomy-induced cell death", <i>Proc. Natl. Acad. Sci. USA</i> , 92:895-899 (1995)  |
|  | IK | Houghten <i>et al.</i> , "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery", <i>Nature</i> , 354:84-86 (1991)   |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |
|----|--|
| IL | Houghten, <i>et al.</i> , "General method for the rapid solid-phase synthesis of large numbers of peptides: specificity of antigen-antibody interaction at the level of individual amino acids", <i>Proc. Natl. Acad. Sci. USA</i> , <u>82</u> :5131-5135 (1985) |
| IM | Houghten <i>et al.</i> , "The Use of Synthetic Peptide Combinatorial Libraries for the Identification of Bioactive Peptides", <i>BioTechniques</i> , <u>313</u> :412-421 (1992)  |
| IN | Houghten, <i>et al.</i> , "The Use Of Synthetic Peptide Combinatorial Libraries For The Determination Of Peptide Ligands In Radio-Receptor Assays-Opioid-Peptides", <i>Bioorg. Med. Chem. Lett.</i> , <u>3(3)</u> :405-412 (1993)                                |
| IO | Hruby <i>et al.</i> , "Emerging approaches in the molecular design of receptor-selective peptide ligands: conformational, topographical and dynamic considerations", <i>Biochem J.</i> , <u>268</u> :249-262 (1990)  |
| IP | Huang, <i>et al.</i> , "Discovery of new ligand binding pathways in myoglobin by random mutagenesis", <i>Nature Struct. Biol.</i> , <u>1(4)</u> :226-229 (1994)  |
| IQ | Huang <i>et al.</i> , "Serine protease inhibitor TPCK prevents Taxol-induced cell death and blocks c-Raf-1 and Bcl-2 phosphorylation in human breast carcinoma cells", <i>Oncogene</i> , <u>18</u> :3431-3439 (1999)   |
| IR | Hunkapiller <i>et al.</i> , "A microchemical facility for the analysis and synthesis of genes and proteins", <i>Nature</i> , <u>310</u> :105-111 (1984)  |
| IS | Huse <i>et al.</i> , "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", <i>Science</i> , <u>246</u> :1275-1281 (1989)   |
| IT | Huston <i>et al.</i> , "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in <i>Escherichia coli</i> ", <i>Proc. Natl. Acad. Sci. USA</i> <u>85</u> :5879-5883 (1988)            |
| U  | Hutchison <i>et al.</i> , "Mutagenesis at a Specific Position in a DNA Sequence", <i>J Biol Chem</i> , <u>253(18)</u> :6551-6560 (1978)  |
| V  | Iijima <i>et al.</i> , "Stage-Specific Inhibition of <i>Xenopus</i> Embryogenesis by Aprotinin, a Serine Protease Inhibitor", <i>J. Biochem. (Tokyo)</i> , <u>126</u> :912-916 (1999)  |
| W  | Inoue <i>et al.</i> , "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and RNase H", <i>FEBS Lett.</i> <u>215(2)</u> :327-330 (1987)   |
| IX | Inoue <i>et al.</i> , "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", <i>Nucl. Acids Res.</i> <u>15(15)</u> :6131-6148 (1987)   |

TECH CENTER  
JAN 09 2003  
1600/2800

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| IY | IUPAC-IUB, "Commission on Biochemical Nomenclature Abbreviated Nomenclature of Synthetic Polypeptides (Polymerized Amino Acids)", <i>Biochem.</i> , <u>11</u> (5):942-944 (1972)  |
| IZ | Jacquinet <i>et al.</i> "Cloning, genomic organization, chromosomal assignment and expression of a novel mosaic serine proteinase: epitheliasin", <i>FEBS Lett.</i> , <u>468</u> :93-100 (2000)   |
| JA | Jameson <i>et al.</i> , "Fluorescence Anisotropy Applied to Biomolecular Interactions", <i>Methods Enzymol.</i> , <u>246</u> :283-300 (1995)  |
| JB | Janda, K.D., "New Strategies for the Design of Catalytic Antibodies", <i>Biotechnol. Prog.</i> , <u>6</u> :178-181 (1990)   |
| JC | Jankun <i>et al.</i> , "Inhibitors of Urokinase Reduce Size of Prostate Cancer Xenografts in Severe Combined Immunodeficient Mice", <i>Canc. Res.</i> , <u>57</u> :559-563 (1997)   |
| JD | Jessop <i>et al.</i> , "Effects of Serine Protease Inhibitor, Tame, on IL-1 $\beta$ in LPS-Stimulated Human Monocytes: Relationship Between Synthesis and Release of a 33-kDa Precursor and the 17-kDa Biologically Active Species", <i>Inflammation</i> , <u>17</u> (5):613-631 (1993) |
| JE | Jolley, "Fluorescence Polarization Assays for the Detection of Proteases and Their Inhibitors", <i>J. Biomol. Screening</i> , <u>1</u> (1):33-38 (1996)   |
| JF | Jung <i>et al.</i> , "Multiple Peptide Synthesis Methods and Their Applications", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>31</u> (4):367-383 (1992)   |
| JG | Kalaria <i>et al.</i> , "Serine Protease Inhibitor Antithrombin III and Its Messenger RNA in the Pathogenesis of alzheimer's Disease", <i>Am. J. Pathol.</i> , <u>143</u> (3):886-893 (1993)  |
| JH | Kaminogo <i>et al.</i> , "Combination of Serine Protease Inhibitor FUT-175 and Thromboxane Synthetase Inhibitor OKY-046 Decreases Cerebral Vasospasm in Patients with Subarachnoid Hemorrhage", <i>Neurol. Med. Chir. (Tokyo)</i> , <u>38</u> :704-709 (1998)                           |
| JI | Kang <i>et al.</i> , "Antibody redesign by chain shuffling from random combinatorial immunoglobulin libraries", <i>Proc. Natl. Acad. Sci. USA</i> , <u>88</u> :11120-11123 (1991)   |
| JJ | Kawaguchi <i>et al.</i> , "Purification and Cloning of hepatocyte Growth Factor Activator Inhibitor Type 2, a Kunitz-type serine Protease Inhibitor", <i>J. Biol. Chem.</i> , <u>272</u> (44):27558-27564 (1997)  |
| JK | Kay <i>et al.</i> , "An M13 phage library displaying random 38-amino-acid-peptides as a source of novel sequences with affinity to selected targets genes", <i>Gene</i> , <u>128</u> :59-65 (1993)  |
| JL | Ke <i>et al.</i> , "Distinguishing the Specificities of Closely Related Proteases. Role of P3 In Substrate And Inhibitor Discrimination Between Tissue-type Plasminogen Activator And Urokinase", <i>J. Biol. Chem.</i> , <u>272</u> (26):16603-16609 (1997)                            |

TECH CENTER  
JAN 09 2003  
1600/2900

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| JM | Ke <i>et al.</i> , "Rapid and efficient site-directed mutagenesis by single-tube 'megaprimer' PCR method", <i>Nucl. Acids Res.</i> , <u>25</u> (16):3371-3372 (1997)  |
| JN | Ke <i>et al.</i> , "Identification of a Hydrophobic Exosite on Tissue Type Plasminogen Activator That Modulates Specificity for Plasminogen", <i>J. Biol. Chem.</i> , <u>272</u> (3):1811-1816 (1997)   |
| JO | Ke <i>et al.</i> , "Optimal Subsite Occupancy and Design of a Selective Inhibitor of Urokinase", <i>J. Biol. Chem.</i> , <u>272</u> (33):20456-20462 (1997)   |
| JP | Kelsey <i>et al.</i> , "Species- and tissue-specific expression of human $\alpha_1$ -antitrypsin in transgenic mice", <i>Genes and Devel.</i> , <u>1</u> :161-171 (1987)  |
| JQ | Kennedy <i>et al.</i> , "Immobilized Enzymes", Book: Volume 66, Chapter 7, <u>Solid Phase Biochemistry. Analytical and Synthetic Aspects</u> , John Wiley & Sons, Inc., New York, pp. 253-391 (1993)  |
| JR | Kent <i>et al.</i> , "Preparation and Properties of <i>tert</i> -Butyloxycarbonylaminoacyl-4-(oxymethyl)phenylacetamidomethyl-(Kel F-g-styrene) Resin, an Insoluble, Noncrosslinked Support for Solid Phase Peptide Synthesis", <i>J. Chem.</i> , <u>17</u> :243-247 (1978) |
| JS | Kiem <i>et al.</i> , "Retrovirus-Mediated Gene Transduction Into Canine Peripheral Blood Repopulating Cells", <i>Blood</i> , <u>83</u> (6):1467-1473 (1994)   |
| JT | Kim <i>et al.</i> , "Cloning and chromosomal mapping of a gene isolated from thymic stromal cells encoding a new mouse type II membrane serine protease, epithin, containing four LDL receptor modules and two CUB", <i>Immunogenetics</i> , <u>49</u> :420-428 (1999)      |
| JU | Kim <i>et al.</i> , "A Cysteine-Rich Serine Protease Inhibitor (Guamerin II) from the Non-Blood Sucking Leech <i>Whitmania Edentula</i> : Biochemical Characterization and Amino Acid Sequence Analysis", <i>J. Enzym. Inhib.</i> , <u>10</u> :81-91 (1996)                 |
| JV | Kitamoto <i>et al.</i> , "Enterokinase, the initiator of intestinal digestion, is a mosaic protease composed of a distinctive assortment of domains", <i>Proc. Natl. Acad. Sci. USA</i> , <u>91</u> :7588-7592 (1994)   |
| JW | Kitamoto <i>et al.</i> , "cDNA Sequence and Chromosomal Localization of Human Enterokinase, the Proteolytic of Trypsinogen", <i>Biochem.</i> , <u>34</u> (14):4562-4568 (1995)  |
| JX | Kleine <i>et al.</i> , "Lipopeptide-Polyoxyethylene Conjugates as Mitogens and Adjuvants", <i>Immunobiol.</i> , <u>190</u> :53-66 (1994)  |
| JY | Kobayashi <i>et al.</i> , "Inhibition of Metastasis of Lewis Lung Carcinoma by a Synthetic Peptide within Growth Factor-like Domain of Urokinase in the Experimental and Spontaneous Metastasis Model", <i>Int. J. Canc.</i> , <u>57</u> :727-733 (1994)                    |

TECH CENTER 1600/2900

JAN 09 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | JZ | Kodo <i>et al.</i> , "Antibody Synthesis by Bone Marrow Cells In Vitro following Primary and Booster Tetanus Toxoid Immunization in Humans", <i>J. Clin. Invest.</i> , <u>73</u> :1377-1384 (1984)  |
|  | KA | Köhler <i>et al.</i> , "Continuous cultures of fused cells secreting antibody of predefined specificity", <i>Nature</i> , <u>526</u> :495-497 (1975)  |
|  | KB | Koller <i>et al.</i> , "Inactivating the $\beta_2$ -microglobulin locus in mouse embryonic stem cells by homologous recombination", <i>Proc. Natl. Acad. Sci. USA</i> <u>86</u> :8932-8935 (1989)   |
|  | KC | Kollias <i>et al.</i> , "Regulated Expression of Human $\gamma$ -, $\beta$ -, and Hybrid $\gamma\beta$ -Globin Genes in Transgenic Mice: Manipulation of the Developmental Expression Patterns", <i>Cell</i> , <u>46</u> :89-94 (1986)                                    |
|  | KD | Kozak, "Structural Features in Eukaryotic mRNAs That Modulate the Initiation of Translation", <i>J. Biol. Chem.</i> , <u>266</u> (30):19867-19870 (1991)  |
|  | KE | Kozarsky <i>et al.</i> , "Gene therapy: adenovirus vectors", <i>Genetics and Development</i> , <u>3</u> :499-503 (1993)   |
|  | KF | Kozbor <i>et al.</i> , "The production of monoclonal antibodies from human lymphocytes", <i>Immunology Today</i> <u>4</u> (3):72-79 (1983)  |
|  | KG | Krumlauf <i>et al.</i> , "Developmental Regulation of $\alpha$ -Fetoprotein Genes in Transgenic Mice", <i>Mol. Cell. Biol.</i> , <u>5</u> (7):1639-1648 (1985)  |
|  | KH | Ladurner <i>et al.</i> , "Glutamine, Alanine or Glycine Repeats Inserted into the Loop of a Protein Have Minimal Effects on Stability and Folding Rate", <i>J. Mol. Biol.</i> , <u>273</u> :330-337 (1997)  |
|  | KI | Lam, K.S., "Application of combinatorial library methods in cancer research and drug discovery", <i>Anti-Cancer Drug Des.</i> , <u>12</u> :145-167 (1997)   |
|  | KJ | Lam <i>et al.</i> , A new type of synthetic peptide library for identifying ligand-binding activity, <i>Nature</i> , <u>354</u> :82-84 (1991); (published errata appear in <i>Nature</i> , <u>358</u> :434 (1992) and <i>Nature</i> , <u>360</u> :768 (1992))             |
|  | KK | Lebl <i>et al.</i> , "One Bead One Structure Combinatorial Libraries", <i>Biopolymerse (Pept. Sci.)</i> , <u>37</u> :177-198 (1995)   |
|  | KL | Le Cam <i>et al.</i> , "Growth Hormone-Mediated Transcriptional Activation of the Rat Serine Protease Inhibitor 2.1 Gene Involves Both Interleukin-1 $\beta$ -Sensitive and -Insensitive Pathways", <i>Biochem. Biophys. Res. Commun.</i> , <u>253</u> (2):311-314 (1998) |
|  | KM | Leder <i>et al.</i> , "Consequences of Widespread Dereglulation of the c-myc Gene in Transgenic Mice: Multiple Neoplasms and Normal Development", <i>Cell</i> , <u>45</u> :485-495 (1986)   |

TECH CENTER 1600/2900

RECEIVED

JAN 09 2003

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**



|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |
|----|--|
| KN | Lemaitre <i>et al.</i> , "Specific antiviral activity of a poly(L-lysine)-conjugated oligodeoxyribonucleotide sequence complementary to vesicular stomatitis virus N protein mRNA initiation site", <i>Proc. Natl. Acad. Sci. USA</i> , <u>84</u> :648-652 (1987)  |
| KO | Lerner <i>et al.</i> , "Antibodies without Immunization", <i>Science</i> , <u>258</u> :1313-1314 (1992)  |
| KP | Lerner <i>et al.</i> , "High Throughput Screen for Inhibitors of Bacterial DNA Topoisomerase I Using the Scintillation Proximity Assay", <i>J. Biomol. Screening</i> , <u>1</u> (3):135-143 (1996)   |
| KQ | Letsinger <i>et al.</i> , "Cholesteryl-conjugated oligonucleotides: Synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :6553-6556 (1989)   |
| KR | Leytus <i>et al.</i> , "A Novel Trypsin-like Serine Protease (Hepsin) with a Putative Transmembrane domain Expressed by Human Liver and Hepatoma Cells", <i>Biochem.</i> , <u>27</u> :1067-1074 (1988)   |
| KS | Li <i>et al.</i> , "Minimization of a Polypeptide Hormone", <i>Science</i> , <u>270</u> :1657-1660 (1995)  |
| KT | Light <i>et al.</i> , "Phophabs: Antibody-Phage-Alkaline Phosphatase Conjugates For One Step Elisa's Without Immunization", <i>Bioorg. Med. Chem. Lett.</i> , <u>2</u> (9):1073-1078 (1992)  |
| KU | Lin <i>et al.</i> , "Molecular Cloning of cDNA for Matriptase, a Matrix-degrading Serine Protease with Trypsin-like Activity", <i>J. Biol. Chem.</i> , <u>274</u> (26):18231-18236 (1999)  |
| KV | Lin <i>et al.</i> , "Purification and Characterization of a Complex Containing Matriptase and a Kunitz-type Serine Protease Inhibitor from Human Milk", <i>J. Biol. Chem.</i> , <u>274</u> (26):18237-18242 (1999)   |
| KW | Lindmark <i>et al.</i> , "Pulmonary Function in Middle-aged Women with Heterozygous Deficiency of the Serine Protease Inhibitor Alpha-antichymotrypsin", <i>Am. Rev. Respir. Dis.</i> , <u>141</u> :884-888 (1990)   |
| KX | Little <i>et al.</i> , "Bacterial surface presentation of proteins and peptides: an alternative to phage technology?", <i>Trends Biotechnol.</i> , <u>11</u> :3-5 (1993)   |
| KY | Liu <i>et al.</i> , "Identification of a Novel Serine Protease-like Gene, the Expression of Which Is Down-Regulated during Breast Cancer Progression", <i>Cancer Res.</i> , <u>56</u> :3371-3379 (1996)  |
| KZ | Liu <i>et al.</i> , "Matrix Localization of Tissue Factor Pathway Inhibitor-2/Matrix-Associated Serine Protease Inhibitor (TFPI-2/MSPI) Involves Arginine-Mediated Ionic Interactions with Heparin and Dermatan Sulfate: Heparin Accelerates the Activity of TFPI-2/MSPI toward Plasmin", <i>Arch. Biochem. Biophys.</i> , <u>370</u> (1):112-118 (1999) |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |
|----|--|
| LA | Loeffler <i>et al.</i> , "Gene Transfer into Primary and Established Mammalian Cell Lines with Lipopolyamine-Coated DNA", <i>Meth. Enzymol.</i> , <u>217</u> :599-618 (1993)   |
| LB | Loh <i>et al.</i> , "Night Functional Dependency Index", <i>JAGS</i> , <u>49</u> :1395-1396 (2001)   |
| LC | Lundqvist <i>et al.</i> , Original Research Papers, "The serine protease inhibitor diisopropylfluorophosphate inhibits neutrophil NADPH-oxidase activity induced by the calcium ionophore ionomycin and serum opsonised yeast particles", <i>Inflamm. Res.</i> , <u>44</u> (12):510-517 (1995) |
| LD | Luthman <i>et al.</i> , "Peptides and Peptidomimetics", Book: <u>A Textbook of Drug Design and Development</u> , 2nd Ed., Harwood Academic Publishers, <u>14</u> :386-406 (1996)   |
| LE | Lynch <i>et al.</i> , "A Fluorescence Polarization Based Src-SH2 Binding Assay", <i>Anal. Biochem.</i> , <u>247</u> :77-82 (1997)  |
| LF | Maake <i>et al.</i> , "The Growth Hormone Dependent Serine Protease Inhibitor, Spi 2.1 Inhibits the Des (1-3) Insulin-Like Growth Factor-I Generating Protease", <i>Endocrinology</i> , <u>138</u> (12):5630-5636 (1997)   |
| LG | MacDonald, R.J., "Expression of the Pancreatic Elastase I Gene in Transgenic Mice", <i>Hepatol.</i> , Suppl. <u>7</u> (1):42S-51S (1987)   |
| LH | Madison E.L., "Substrate Specificity of Tissue Type Plasminogen Activator", <i>Adv. Exp. Med. Biol.</i> , <u>425</u> :109-121 (1997)   |
| LI | Madison <i>et al.</i> , "Substrate Specificity of Tissue Type Plasminogen Activator. Characterization Of The Fibrin Independent Specificity Of t-PA For Plasminogen", <i>J. Biol. Chem.</i> , <u>270</u> (13):7558-7562 (1995)   |
| LJ | Madison E.L., "Studies of Serpins Unfold at a Feverish Pace", <i>J. Clin. Invest.</i> , <u>94</u> (6):2174-2175 (1994)   |
| LK | Madison <i>et al.</i> , "Converting Tissue Plasminogen Activator to a Zymogen: A Regulatory Triad of ASP-His-Ser", <i>Science</i> , <u>262</u> (5132):419-421 (1993)   |
| LL | Madison, E.L., "Probing Structure/Function Relationships of Tissue-type Plasminogen Activator by Site Specific Mutagenesis", <i>Fibrinolysis</i> , <u>81</u> (Suppl. 1):221-236 (1994)   |
| LM | Madison <i>et al.</i> , "Probing Structure-Function Relationships of Tissue-Type Plasminogen Activator by Oligonucleotide-Mediated Site-Specific Mutagenesis", <i>Methods Enzymol.</i> , <u>223</u> :249-271 (1993)  |
| LN | Madison <i>et al.</i> , "A vector, pSHT, for the expression and secretion of protein domains in mammalian cells", <i>Gene</i> , <u>121</u> (1):179-180 (1992)  |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | LO | Madison <i>et al.</i> , "Restoration of Serine Protease-Inhibitor Interaction by Protein Engineering", <i>J. Biol. Chem.</i> , <u>265(35)</u> :21423-21426 (1990)   |
|  | LP | Madison <i>et al.</i> , "Amino acid residues that affect interaction of tissue-type plasminogen activator with plasminogen activator inhibitor 1", <i>Proc. Natl. Acad. Sci. USA</i> , <u>87(9)</u> :3530-3533 (1990) |
|  | LQ | Madison <i>et al.</i> , "Serpine-resistant mutants of human tissue type plasminogen activator", <i>Nature</i> , <u>339(6227)</u> :721-724 (1989)  |
|  | LR | Magram <i>et al.</i> , "Developmental regulation of a cloned adult $\beta$ -globin gene in transgenic mice", <i>Nature</i> , <u>315</u> :338-340 (1985)   |
|  | LS | Marks <i>et al.</i> , "By-Passing Immunization. Human Antibodies from V-Gene Libraries Displayed on Phage", <i>J. Mol. Biol.</i> , <u>222</u> :581-597 (1991)   |
|  | LT | Marlor <i>et al.</i> , "Identification and Cloning of Human Placental Bikunin, a Novel Serine Protease Inhibitor Containing Two Kunitz Domains", <i>J. Biol. Chem.</i> , <u>272(18)</u> :12202-12208 (1997)           |
|  | LU | Mason <i>et al.</i> , "The Hypogonadal Mouse, Reproductive Functions Restored by Gene Therapy", <i>Science</i> <u>234</u> :1372-1378 (1986)   |
|  | LV | Mastrangeli <i>et al.</i> , "Diversity of Airway Epithelial Cell Targets for In Vivo Recombinant Adenovirus-mediated Gene Transfer", <i>J. Clin. Invest.</i> <u>91</u> :225-234 (1993)                                |
|  | LW | Matrisian <i>et al.</i> , "Stromelysin/transin and tumor progression", <i>Cancer Biol.</i> , <u>1</u> :107-115 (1990)   |
|  | LX | Matsushima <i>et al.</i> , "Structural Characterization of Porcine Enteropeptidase", <i>J. Biol. Chem.</i> , <u>269(31)</u> :19976-19982 (1994)   |
|  | LY | Matthews <i>et al.</i> , "Substrate Phage: Selection of Protease Substrates by Monovalent Phage Display", <i>Science</i> , <u>260</u> :1113-1117 (1993)   |
|  | LZ | McCafferty <i>et al.</i> , "Phage Enzymes: Expression and Affinity Chromatography of Functional Alkaline Phosphatase on the Surface of Bacteriophage", <i>Protein Eng.</i> , <u>4(8)</u> :955-961 (1991)              |
|  | MA | McDonald, "Thrombopoietin. Its Biology, clinical Aspects, and Possibilities", <i>Am. J. of Pediatric Hematology/Oncology</i> , <u>14(1)</u> :8-21 (1992)  |
|  | MB | Mc Donnell <i>et al.</i> , "Stromelysin in tumor progression and metastasis", <i>Cancer and Metastasis Reviews</i> , <u>9</u> :305-319 (1990)   |

TECH. CENTER 1600/2900

JAN 09 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | MC | McPhalen <i>et al.</i> , "Preliminary Crystallographic Data for the Serine Protease Inhibitor CI-2 from Barley Seeds", <i>J. Mol. Biol.</i> , <u>168</u> :445-447 (1983)   |
|  | MD | Mellgren <i>et al.</i> , "The Influence of a Serine Protease Inhibitor, Nafamostat Mesilate, on Plasma Coagulation, and Platelet Activation during Experimental Extracorporeal Life Support (ECLS)", <i>Thromb. Haemost.</i> , <u>79</u> :342-347 (1998) |
|  | ME | Menger <i>et al.</i> , "Phosphatase Catalysis Developed Via Combinatorial Organic Chemistry", <i>J. Org. Chem.</i> , <u>60</u> :6666-6667 (1995)   |
|  | MF | Merrifield, R.B., "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", <i>J. Am. Chem. Soc.</i> , <u>85</u> :2149-2154 (1963)  |
|  | MG | Merrifield, R.B., "Solid Phase Peptide Synthesis. III. An Improved Synthesis of Bradykinin", <i>Biochemistry</i> , <u>3</u> (9):1385-1390 (1964)   |
|  | MH | Miller <i>et al.</i> , "Use of Retroviral Vectors for Gene Transfer and Expression", <i>Meth. Enzymol.</i> <u>217</u> :581-599 (1993)  |
|  | MI | Min <i>et al.</i> , "Urokinase Receptor Antagonists Inhibit Angiogenesis and Primary Tumor Growth in Syngeneic Mice", <i>Canc. Res.</i> , <u>56</u> :2428-2433 (1996)  |
|  | MJ | Mitchell <i>et al.</i> , "Preparation of Aminomethyl-Polystyrene Resin By Direct Amidomethylation", <i>Tetrahedron Lett.</i> , <u>42</u> :3795-3798 (1976)   |
|  | MK | Mitchell <i>et al.</i> , "A New Synthetic Route to <i>tert</i> -Butyloxycarbonylaminoacyl-4-(oxymethyl)phenylacetamidomethyl-resin, an Improved Support for solid-Phase Peptide Synthesis", <i>J. Org. Chem.</i> , <u>43</u> (14):2845-2852 (1978)       |
| TECH CENTER 1600/2900<br>JAN 09 2003<br>RECEIVED | ML | Modha <i>et al.</i> , "An association between schistosomes and contrapsin, a mouse serine protease inhibitor (serpin)", <i>Parasitology</i> , <u>96</u> :99-109 (1988)   |
|  | MM | Monfardini <i>et al.</i> , "A Branched Monomethoxypoly(ethylene glycol) for Protein Modification", <i>Bioconjugate Chem.</i> , <u>6</u> (1):62-69 (1995)   |
|  | MN | Morgan <i>et al.</i> , "Human Gene Therapy", <i>Annu. Rev. Biochem.</i> , <u>62</u> :191-217 (1993)  |
|  | MO | Morgan <i>et al.</i> , "Approaches to the Discovery of Non-Peptide Ligands for Peptide receptors and Peptidases", Book: <i>Annu. Rep. Med. Chem.</i> , Chapter 26, Section VI, <u>24</u> :243-252 (1989)   |
|  | MP | Morrison <i>et al.</i> , "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", <i>Proc. Natl. Acad. Sci. USA</i> , <u>81</u> :6851-6855 (1984)  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| MQ | Mosbach, K., "Introduction", <i>Methods in Enzymol.</i> , <u>44</u> :3-7 (1976)   |
| MR | Mosbach et al., "Immobilization Techniques", Section II, <i>Methods in Enzymol.</i> , <u>44</u> :53-65 (1976)   |
| MS | Mosbach et al., "Multistep Enzyme Systems", Section VII, <i>Methods in Enzymol.</i> , <u>44</u> :453-479 (1976)   |
| MT | Mosbach et al., "Immobilized Coenzymes", Section X, <i>Methods in Enzymol.</i> , <u>44</u> :859-887 (1976)  |
| MU | Moser et al., "Bdellastasin, a serine protease inhibitor of the antistasin family from the medical leech ( <i>Hirudo medicinalis</i> )", <i>Eur. J. Biochem.</i> , <u>253</u> :212-220 (1998)                   |
| MV | Mulligan, "The Basic Science of Gene Therapy", <i>Science</i> , <u>260</u> :926-932 (1993)  |
| MW | Nakabo et al., "Lysis of leukemic cells by human macrophages: inhibition by 4-(2-aminoethyl)-benzenesulfonyl fluoride (AEBF), a serine protease inhibitor", <i>J. Leukoc. Biol.</i> , <u>60</u> :328-336 (1996) |
| MX | NCBI Protein NP 004253  |
| MY | NCBI Nucleotide T30338  |
| MZ | NCBI Nucleotide U77054  |
| NA | NCBI Nucleotide U81291  |
| NB | NCBI Nucleotide AC012228  |
| NC | NCBI Nucleotide AF133086  |
| ND | NCBI Nucleotide AF042822  |
| NE | NCBI Nucleotide NM_016425   |
| NF | NCBI Nucleotide AF113596  |
| NG | NCBI Nucleotide U75329  |
| NH | NCBI Nucleotide X70900  |
| NI | NCBI Nucleotide M18930  |
| NJ | NCBI Nucleotide AF030065  |
| NK | NCBI Nucleotide AF118224  |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|                                      |                |  |
|--------------------------------------|----------------|--|
|                                      | NL             | NCBI Nucleotide AB002134   |
|                                      | NM             | NCBI Nucleotide U09860   |
|                                      | NN             | NCBI Nucleotide AB013874   |
|                                      | NO             | NCBI Nucleotide AF133845   |
|                                      | NP             | Neuberger <i>et al.</i> , "Recombinant antibodies possessing novel effector functions", <i>Nature</i> , <u>312</u> :604-608 (1984)   |
|                                      | NQ             | Newton <i>et al.</i> , "Angiogenin Single-Chain Immunofusions: Influence of Peptide Linkers and Spacers between Fusion Protein Domains", <i>Biochemistry</i> , <u>35</u> :545-553 (1996)   |
|                                      | NR             | Nicolaou <i>et al.</i> , "Radiofrequency Encoded Combinatorial Chemistry", <i>Angew. Chem. Int. Ed. Engl.</i> , <u>34</u> (20):2289-2291 (1995)  |
|                                      | NS             | Niimi <i>et al.</i> , "A <i>Drosophila</i> gene encoding multiple splice variants of Kazal-type serine protease inhibitor-like proteins with potential destinations of mitochondria, cytosol and the secretory pathway", <i>Eur. J. Biochem.</i> , <u>266</u> :282-292 (1999)  |
|                                      | NT             | Nogrady, "Pro-Drugs and Soft Drugs", Book: <u>Medicinal Chemistry A Biochemical Approach</u> , Oxford University Press, NY, pages 388-394 (1985)   |
|                                      | NU             | Ohkoshi <i>et al.</i> , "Effects of Serine Protease Inhibitor FOY-305 and Heparin on the Growth of Squamous Cell Carcinoma", <i>Anticancer Res.</i> , <u>13</u> :963-966 (1993)  |
| TECH CENTER 1600/2300<br>JAN 09 2003 | RECEIVED<br>NY | Oldenburg <i>et al.</i> , "Peptide Ligands for A Sugar-Binding Protein Isolated from a Random Peptide Library", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :5393-5397 (1992)  |
|                                      |                | Ong <i>et al.</i> , "Biosynthesis of HNK-1 Glycans on O-Linked Oligosaccharides Attached to the Neural Cell Adhesion Molecule (NCAM)", <i>J Biochem</i> , <u>277</u> (20):18182-18190 (2002)   |
|                                      |                | O'Reilly, "The preclinical evaluation of angiogenesis inhibitors", <i>Investigational New Drugs</i> , <u>15</u> :5-13 (1997)   |
|                                      |                | Ornitz <i>et al.</i> , "Elastase I Promoter Directs Expression of Human Growth Hormone and SV40 T Antigen Genes to Pancreatic Acinar Cells in Transgenic Mice", <i>Cold Spring Harbor Symp. Quant. Biol.</i> <u>50</u> :399-409 (1986)   |
|                                      | NZ             | Orth <i>et al.</i> , "Complexes of tissue-type plasminogen activator and its serpin inhibitor plasminogen-activator inhibitor type 1 are internalized by means of the low density lipoprotein receptor-related protein/ $\alpha_2$ -macroglobulin receptor", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> (16):7422-7426 (1992) |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | OA | Ossowski, "In Vivo Invasion of Modified Chorioallantoic Membrane by Tumor Cells: the Role of Cell Surface-bound Urokinase", <i>J. Cell Biol.</i> , <u>107</u> (6, Pt. 1):2437-2445 (1988)                                   |
|  | OB | Osterwalder et al., "Neuroserpin, an axonally secreted serine protease inhibitor", <i>EMBO J.</i> , <u>15</u> (12):2944-2953 (1996)   |
|  | OC | Padwa et al., "Photoelimination of a $\beta$ -Keto Sulfide with a Low-Lying $\pi - \pi$ Triplet State", <i>J. Org. Chem.</i> , <u>36</u> (23):3550-2552 (1971)  |
|  | OD | Palencia et al., "Determination of Activable Proacrosin/Acrosin in Bovine Sperm Using an Irreversible Isocoumarin Serine Protease Inhibitor", <i>Biol. Reprod.</i> , <u>55</u> :536-542 (1996)                              |
|  | OE | Paoloni-Giacobino, "Cloning the TMPRSS2 Gene, Which Encodes a Novel Serine Protease with Transmembrane, LDLRA, and SRCR Domains and Maps to 21q22.3", et al., <i>Genomics</i> , <u>44</u> :309-320 (1997)                   |
|  | OF | Parmley et al., "Antibody-Selectable Filamentous fd Phage Vectors: Affinity Purification of Target Genes", <i>Genes</i> , <u>73</u> :305-318 (1988)   |
|  | OG | Parodi et al., "Gabexate Mesilate, A New Synthetic Serine Protease Inhibitor: A Pilot Clinical Trial in Valvular Heart Surgery", <i>J. Cardiothorac. Vasc. Anesth.</i> , <u>10</u> (2):235-237 (1996)                       |
|  | OH | Paul et al., "Characterization of three transcriptional repressor sites within the 3' untranslated region of the rat serine protease inhibitor 2.3 gene", <i>Eur. J. Biochem.</i> , <u>254</u> (3):538-546 (1998)           |
|  | OI | PIERCE Catalog, ImmunoTechnology Catalog & Handbook, 1992-1993  |
|  | OJ | Pinilla et al., "Review of the Utility of Soluble Combinatorial Libraries", <i>Biopolymers</i> , <u>37</u> :221-240 (1995)  |
|  | OK | Pinilla et al., "Synthetic peptide combinatorial libraries (SPCLs)--identification of the antigenic determinant of beta-endorphin recognized by monoclonal antibody-3E7", <i>Gene</i> , <u>128</u> :71-76 (1993)            |
|  | OL | Pinkert et al., "An albumin enhancer located 10 kb upstream functions along with its promoter to direct efficient, liver-specific expression in transgenic mice", <i>Genes &amp; Development</i> , <u>1</u> :268-276 (1987) |
|  | OM | Pistor et al., "Expression of Viral Hemagglutinin On the Surface of <i>E. coli</i> .", <i>Klin. Wochenschr.</i> , <u>66</u> :110-116 (1988)   |

RECEIVED  
 JAN 09 2003  
 TECH CENTER 1600/2900

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | ON | Pittelkow <i>et al.</i> , "New Techniques for the In Vitro Culture of Human Skin Keratinocytes and Perspectives on Their Use for Grafting of Patients With Extensive Burns", <i>Mayo Clinic Proc.</i> , <u>61</u> :771-777 (1986) |
|  | OO | Pollack <i>et al.</i> , "Selective Chemical Catalysis by an Antibody", <i>Science</i> , <u>234</u> :1570-1573 (1986)  |
|  | OP | Powers <i>et al.</i> , "Protein Purification by Affinity Binding to Unilamellar Vesicles", <i>Biotechnol. Bioengineering</i> , <u>33</u> :173-182 (1989)  |
|  | OQ | Press Release: Corvas Company, "Corvas Advances Anti-Cancer Drug Discovery Program on a New Family Of Membrane-Bound Serine Proteases", Feb 7, 2002   |
|  | OR | Press Release: Corvas Company, "Corvas International to Present at CIBC World Markets Health Care Conference", Nov 1, 2001  |
|  | OS | Press Release: Corvas Company, "Corvas International to Present at Salomon Smith Barney 2001 Health Care Conference", Oct 25, 2001  |
|  | OT | Press Release: Corvas Company, "Corvas International to Present at Techvest's 3rd Annual Healthcare Conference", Oct 18, 2001   |
|  | OU | Press Release: Corvas Company, "Corvas and Dyax Collaborate on Serine Protease Inhibitors; New Approach to Treat Cancer", Sep 20, 2001  |
|  | OV | Press Release: Corvas Company, "Corvas Presents 3-D Molecular Structure of Matriptase, First Structural Insight Into New Class of Protease Cancer Targets", Aug 27, 2001  |
|  | OW | Press Release: Corvas Company, "Corvas International to Present at UBS Warburg Global Life Sciences Conference", Oct 3, 2001  |
|  | OX | Press Release: Corvas Company, "Corvas International to Present at the 9th Annual Investing in Biotechnology Conference in London", Jul 6, 2001   |
|  | OY | Press Release: Corvas Company, "Corvas International to Present at BIO 2001", Jun 22, 2001  |
|  | OZ | Press Release: Corvas Company, "Corvas International to Present at Wells Fargo Van Kasper Growth Stock Conference", Jun 14, 2001  |
|  | PA | Press Release: Corvas Company, "Abgenix and Corvas Form Collaboration to Develop Therapeutic Antibodies Against Cancer", May 14, 2002   |

RECEIVED

JAN 09 2003

TECH CENTER

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**



|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| PB | Rabbani <i>et al.</i> , "Prevention of Prostate-cancer Metastasis <i>In Vivo</i> by a Novel Synthetic Inhibitor of Urokinase-type Plasminogen Activator (uPA)", <i>Int. J. Cancer</i> , <u>63</u> :840-845 (1995)   |
| PC | Rao <i>et al.</i> , "Extracellular Matrix-Associated Serine Protease Inhibitors (M, 33,000, and 27, 2000) Are Single-Gene Products with Differential Glycosylation: cDNA Cloning of the 33-kDa Inhibitor Reveals Its Identity to Tissue Factor Pathway Inhibitor-2", <i>Arch. Biochem. Biophys.</i> , <u>335</u> (1):82-92 (1996) |
| PD | Rao <i>et al.</i> , "HT-1080 Fibrosarcoma Cell Matrix Degradation and Invasion are Inhibited by the Matrix-Associated Serine Protease Inhibitor TFPI-2/33 kDa MSPI", <i>Int. J. Cancer</i> , <u>76</u> :749-756 (1998)  |
| PE | Ravichandran <i>et al.</i> , "Cryocrystallography of a Kunitz-type serine protease inhibitor: the 90 K structure of winged bean chymotrypsin inhibitor (WCI) at 2.13 Å resolution", <i>Acta Cryst.</i> , <u>D55</u> :1814-1821 (1999)   |
| PF | Readhead <i>et al.</i> , "Expression of a Myelin Basic Protein Gene in Transgenic Shiverer Mice: Correction of the Dysmyelinating Phenotype", <i>Cell</i> , <u>48</u> :703-712 (1987)   |
| PG | Rheinwald, "Serial Cultivation of Normal Human Epidermal Keratinocytes", Chapter 15, <i>Meth. Cell Biol.</i> , Volume 21, <u>21A</u> :229-254 (1980)  |
| PH | Rigler <i>et al.</i> , "Fluorescence Correlations, Single Molecule Detection and Large Number Screening: Applications in Biotechnology", <i>J. Biotechnol.</i> , <u>41</u> :177-186 (1995)  |
| PI | Rizo <i>et al.</i> , "Constrained Peptides: Models of Bioactive Peptides and Protein Substructures", <i>An. Rev. Biochem.</i> , <u>61</u> :387-418 (1992)   |
| PJ | Roberts <i>et al.</i> , "Unusual Amino/Acids in Peptide Synthesis", <i>The Peptides. Analysis, Synthesis, Biology</i> , Chapter 6, <u>5</u> :341-449 (1983)   |
| PK | Robinson, "Gene therapy - proceeding from laboratory to clinic", <i>TIBTECH</i> , <u>11</u> (5):155-215 (1993)  |
| PL | Roch <i>et al.</i> , "Characterization of a 14 kDa Plant-related Serine Protease Inhibitor and Regulation of Cytotoxic Activity in Earthworm Coelomic Fluid", <i>Dev. Comp. Immunol.</i> , <u>22</u> (1):1-12 (1998)  |
| PM | Rosenfeld <i>et al.</i> , "In Vivo Transfer of the Human Cystic Fibrosis Transmembrane Conductance Regulator Gene to the Airway Epithelium", <i>Cell</i> , <u>68</u> :143-155 (1992)  |
| PN | Rosenfeld <i>et al.</i> , "Adenovirus-mediated Transfer of a Recombinant $\alpha$ 1-Antitrypsin Gene to the Lung Epithelium in Vivo", <i>Science</i> , <u>252</u> :431-434 (1991)   |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|                          |                                |                          |
|--------------------------|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified) | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|                          | APPLICANT<br>MADISON et al.    |                          |
|                          | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| PO | Rusbridge <i>et al.</i> , "3,4-Dichloroisocoumarin, a serine protease inhibitor, inactivates glycogen phosphorylase <i>b</i> ", <i>FEBS Lett.</i> , <u>268</u> (1):133-136 (1990)   |
| PP | Ryo <i>et al.</i> , "Treatment of Post-Transfusion Graft-versus-Host Disease with Nafmostat Mesilate, a Serine Protease Inhibitor", <i>Vox Sang.</i> , <u>76</u> :241-246 (1999)  |
| PQ | Salmons <i>et al.</i> , "Targeting of Retroviral Vectors for Gene Therapy", <i>Human Gene Therapy</i> , <u>4</u> :129-141 (1993)  |
| PR | Sambrook <i>et al.</i> , "Molecular Cloning", <i>A Laboratory Manual</i> , 2d Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York (1989), volume 3, p. B12-B14   |
| PS | Sarin <i>et al.</i> , "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", <i>Proc. Natl. Acad. Sci. USA</i> <u>85</u> :7448-7451 (1988)  |
| PT | Sarver <i>et al.</i> , "Ribozymes as Potential Anti-HIV-1 Therapeutic Agents", <i>Science</i> , <u>247</u> :1222-1225 (1990)  |
| PU | Sarvetnick <i>et al.</i> , "Increasing the Chemical Potential of the Germ-Line Antibody Repertoire", <i>Proc. Natl. Acad. Sci. USA</i> , <u>90</u> :4008-4011 (1993)  |
| PV | Sastry <i>et al.</i> , "Cloning of the immunological repertoire in <i>Escherichia coli</i> for generation of monoclonal catalytic antibodies: Construction of a heavy chain variable region-specific cDNA library", <i>Proc. Natl. Acad. Sci. USA</i> , <u>86</u> :5728-5732 (1989) |
| PW | Sawada <i>et al.</i> , "Prevention of Neointimal Formation by a Serine Protease Inhibitor, FUT-175, After Carotid Balloon Injury in Rats", <i>Stroke</i> , <u>30</u> (3):644-650 (1999)   |
| PX | Scalia <i>et al.</i> , "Beneficial Effects of LEX032, A Novel Recombinant Serine Protease Inhibitor, in Murine Traumatic Shock", <i>Shock</i> , <u>4</u> (4):251-256 (1995)   |
| PY | Schultz, <i>et al.</i> , "The Combinatorial Library: A Multifunctional Resource", <i>Biotechnol. Prog.</i> , <u>12</u> (6):729-743 (1996)   |
| PZ | Scott <i>et al.</i> , "Searching for Peptide Ligands with an Epitope Library", <i>Science</i> , <u>249</u> :386-390 (1990)  |
| QA | Scott <i>et al.</i> , "Random peptide libraries", <i>Curr. Opin. Biotechnol.</i> , <u>5</u> :40-48 (1994)   |
| QB | Scuderi, "Suppression of Human Leukocyte Tumor Necrosis Factor Secretion by the Serine Protease Inhibitor <i>p</i> -Toluenesulfonyl-L-Arginine Methyl Ester (Tame)", <i>J. Immunol.</i> , <u>143</u> (1):168-173 (1989)   |

TECH CENTER 1600/2900

JAN 09 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | QC | Sears <i>et al.</i> , "Engineering Enzymes for Bioorganic Synthesis: Peptide Bond Formation", <i>Biotechnol. Prog.</i> , <u>12</u> :423-433 (1996)   |
|  | QD | Sekar <i>et al.</i> , "Specificity of the Serine Protease Inhibitor, Phenylmethylsulfonyl Fluoride", <i>Biochem. Biophys. Res. Commun.</i> , <u>89</u> (2):474-478 (1979)  |
|  | QE | Senda <i>et al.</i> , "Treatment of Ulcerative Colitis with Camostat Mesilate, A Serine Protease Inhibitor", <i>Intern. Med.</i> , <u>32</u> (4):350-354 (1993)  |
|  | QF | Senter <i>et al.</i> , "Novel Photocleavable Protein Crosslinking Reagents and Their Use in the Preparation of Antibody-Toxin Conjugates", <i>Photochem. Photobiol.</i> , <u>42</u> (3):231-237 (1985)   |
|  | QG | Seto <i>et al.</i> , "Central Effect of Aprotinin, a Serine Protease Inhibitor, on Blood Pressure in Spontaneously Hypertensive and Wistar-Kyoto Rats", <i>Adv. Exp. Med. Biol.</i> , <u>247B</u> :49-54 (1989)  |
|  | QH | Seto <i>et al.</i> , "The Effect of Aprotinin (A Serine Protease Inhibitor) on Renal Function and Renin Release", <i>Hypertension</i> , <u>5</u> (6):893-899 (1983)  |
|  | QI | Shani, M., "Tissue-specific expression of rat myosin light-chain 2 gene in transgenic", <i>Nature</i> , <u>314</u> :283-286 (1985)   |
|  | QJ | Sharp, P.A., "RNA interference—2001", <i>Genes &amp; Develop.</i> , <u>15</u> :485-490 (2001)  |
|  | QK | Shilo <i>et al.</i> , "DNA sequences homologous to vertebrate oncogenes are conserved in <i>Drosophila melanogaster</i> ", <i>Proc. Natl. Acad. Sci.</i> , <u>78</u> (11):6789-6792 (1981)   |
|  | QL | Shimomura <i>et al.</i> , "Hepatocyte Growth Factor Activator Inhibitor, a Novel Kunitz-type Serine Protease Inhibitor", <i>J. Biol. Chem.</i> , <u>272</u> (10):6370-6376 (1997)  |
|  | QM | Shiozaki <i>et al.</i> , "Effect of FUT-187, Oral Serine Protease Inhibitor, on Inflammation in the Gastric Remnant", <i>Jpn. J. Cancer Chemother.</i> , <u>23</u> (14):1971-1979 (1996)   |
|  | QN | Shohet <i>et al.</i> , "Inhibitor-Resistant Tissue-Type Plasminogen Activator: An Improved Thrombolytic Agent In Vitro", <i>Thromb. Haemost.</i> , <u>71</u> (1):124-128 (1994)  |
|  | QO | Silverman <i>et al.</i> , "New assay technologies for high-throughput screening", <i>Curr. Opin. Chem. Biol.</i> , <u>2</u> (3):397-403 (1998)   |
|  | QP | Simar-Blanchet <i>et al.</i> , "Regulation of expression of the rat serine protease inhibitor 2.3 gene by glucocorticoids and interleukin-6. A complex and unusual interplay between positive and negative <i>cis</i> -acting elements", <i>Eur. J. Biochem.</i> , <u>236</u> (2):638-648 (1996) |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| QQ | Simon <i>et al.</i> , "Peptides: A modular approach to drug discovery", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :9367-9371 (1992)   |
| QR | Sittampalam <i>et al.</i> , "High-throughput screening: advances in assay technologies", <i>Curr. Opin. Chem. Biol.</i> , <u>1</u> :384-391 (1997)  |
| QS | Smith <i>et al.</i> , "Protein Loop Grafting to Construct a Variant of Tissue-type Plasminogen Activator That Binds Platelet Integrin $\alpha_{IIb}\beta_3$ ", <i>J. Biol. Chem.</i> , <u>270</u> (51):30486-30490 (1995)   |
| QT | Smith <i>et al.</i> , "Single-step purification of polypeptides expressed in <i>Escherichia coli</i> as fusions with glutathione S-transferase", <i>Gene</i> <u>67</u> :31-40 (1988)  |
| QU | Sonatore <i>et al.</i> , "The Utility of FK506-Binding Protein as a Fusion Partner in Scintillation Proximity Assays: Application to SH2 Domains", <i>Anal. Biochem.</i> , <u>240</u> :289-297 (1996)   |
| QV | Spatola <i>et al.</i> , Volume 7, Chapter 5, "Peptide Backbone Modifications: A Structure-Activity Analysis of Peptides Containing Amide Bond Surrogates Conformational Constraints, and Rela", in <i>Chemistry and Biochemistry of Amino Acids, Peptides and Proteins</i> , (Weinstein, Ed.), Marcel Dekkar, New York (1983) |
| QW | Stack <i>et al.</i> , "Tissue-Type Plasminogen Activator", <i>Molecular Basis of Thrombosis and Hemostasis</i> , pgs 479-494, Marcel Dekker, Inc., New York   |
| QX | Stankiewicz <i>et al.</i> , "3' Noncoding sequences of the <i>CTA 1</i> gene enhance expression of the recombinant serine protease inhibitor, CPTI II, in <i>Saccharomyces cerevisiae</i> ", <i>Acta Biochim. Pol.</i> , <u>43</u> (3):525-529 (1996)   |
| QY | Steele <i>et al.</i> , "Pigment epithelium-derived factor: Neurotrophic activity and identification as a member of the serine protease inhibitor gene family", <i>Proc. Natl. Acad. Sci. USA</i> , <u>90</u> (4):1526-1530 (1993)   |
| QZ | Stein <i>et al.</i> , "Physicochemical properties of phosphorothioate oligodeoxynucleotides", <i>Nucl. Acids Res.</i> <u>16</u> (8):3209-3221 (1988)  |
| RA | Stemple <i>et al.</i> , "Isolation of a Stem Cell for Neurons and Glia from the Mammalian Neural Crest", <i>Cell</i> <u>71</u> :973-985 (1992)  |
| RB | Still, W.C., "Discovery of Sequence-Selective Peptide Binding by Synthetic Receptors Using Encoded Combinatorial Libraries", <i>Acc. Chem. Res.</i> , <u>29</u> :155-163 (1996)   |
| RC | Strandberg <i>et al.</i> , "Variants of Tissue-type Plasminogen Activator with Substantially Enhanced Response and Selectivity toward Fibrin Co-factors", <i>J. Biol. Chem.</i> , <u>270</u> (40):23444-23449 (1995)  |

TECH CENTER

JAN 09 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | RD | Sucholeiki, I., "Solid-Phase Photochemical C-S Bond Cleavage Of Thioethers-A New Approach To The Solid-Phase Production Of Non-Peptide Molecules", <i>Tetrahedron Ltrrs.</i> , <u>35</u> :7307-7310 (1994)  |
|  | RE | Sullivan et al., "Development of a Scintillation Proximity Assay for Calcineurin Phosphatase Activity", <i>J. Biomol. Screening</i> , <u>2</u> :19-23 (1997)  |
|  | RF | Swift et al., "Tissue-Specific Expression of the Rat Pancreatic Elastase I Gene in Transgenic Mice", <i>Cell</i> , <u>38</u> :639-646 (1984)  |
|  | RG | Tachias et al., "Variants of Tissue-type Plasminogen Activator That Display Extraordinary Resistance to Inhibition by the Serpin Plasminogen Activator Inhibitor Type 1", <i>J. Biol. Chem.</i> , <u>272</u> (23):14580-14585 (1997)  |
|  | RH | Tachias et al., "Converting Tissue-type Plasminogen Activator into a Zymogen. Important Role Of Lys156", <i>J. Biol. Chem.</i> , <u>272</u> (1):28-31 (1997)  |
|  | RI | Tachias et al., "Converting Tissue-type Plasminogen Activator into a Zymogen", <i>J. Biol. Chem.</i> , <u>271</u> (46):28749-28752 (1996)   |
|  | RJ | Tachias et al., "Variants of Tissue-type Plasminogen Activator Which Display Substantially Enhanced Stimulation by Fibrin", <i>J. Biol. Chem.</i> , <u>270</u> (31):18319-18322 (1995)  |
|  | RK | Takeda et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", <i>Nature</i> , <u>314</u> :452-454 (1985)   |
|  | RL | Takeuchi et al., "Reverse biochemistry: Use of macromolecular protease inhibitors to dissect complex biological processes and identify a membrane-type serine protease in epithelial cancer and normal tissue", <i>Proc. Natl. Acad. Sci. USA</i> , <u>96</u> :11054-11061 (1999) |
|  | RM | Takeuchi et al., "Cellular Localization of Membrane-type Serine Protease 1 and Identification of Protease-activated Receptor-2 and Single-chain Urokinase-type Plasminogen Activator as Substrates", <i>J. Biol. Chem.</i> , <u>275</u> (34):26333-26342 (2000)                   |
|  | RN | Tanimoto et al., "Hepsin, a Cell Surface Serine Protease Identified in Hepatoma Cells, Is Overexpressed in Ovarian Cancer", <i>Cancer Res.</i> , <u>57</u> :2884-2887 (1997)  |
|  | RO | Thompson et al., "Synthesis and Applications of Small Molecule Libraries", <i>Chem. Rev.</i> , <u>96</u> :555-600 (1996)  |
|  | RP | Tietze et al., "Domino reactions for library synthesis of small molecules in combinatorial chemistry", <i>Curr. Opin. Chem. Biol.</i> , <u>2</u> (3):363-371 (1998)   |

TECH CENTER 1600/2900  
JAN 9 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | RQ | Tolstoshev, "Gene Therapy, Concepts, Current Trials and Future Directions", <i>Annu. Rev. Pharmacol. Toxicol.</i> , <u>32</u> :573-596 (1993)   |
|  | RR | Tomita et al., "A Novel Low-Density Lipoprotein Receptor-Related Protein with Type II Membrane Protein-Like Structure Is Abundant in Heart", <i>J. Biochem.</i> , <u>124</u> :784-789 (1998)                        |
|  | RS | Tramontano et al., "Catalytic Antibodies", <i>Science</i> , <u>234</u> :1566-1569 (1986)  |
|  | RT | Treadwell et al., "Cartilage Synthesizes the Serine Protease Inhibitor PAI-1: Support for the Involvement of Serine Proteases in Cartilage Remodeling", <i>J. Orthop. Res.</i> , <u>9</u> (3):309-316 (1991)        |
|  | RU | Tsutsui et al., "Cross-linking of Proteins to DNA in Newly Synthesized Chromatin By Diisopropylfluorophosphate. A Serine Protease Inhibitor", <i>Biochem. Biophys. Res. Commun.</i> , <u>123</u> (1):271-277 (1984) |
|  | RV | Tuschl, T., "RNA Interference and Small Interfering RNAs", <i>CHEMBIOCHEM</i> , <u>2</u> :239-245 (2001)  |
|  | RW | Tyle, P., "Ionophoretic Devices for Drug Delivery", <i>Pharmaceutical Res.</i> , <u>3</u> (6):318-326 (1986)  |
|  | RX | van der Krol et al., "Modulation of Eukaryotic Gene Expression by Complementary RNA or DNA Sequences", <i>BioTech.</i> , <u>6</u> (10):958-976 (1988)   |
|  | RY | Veber et al., "The design of metabolically-stable peptide analogs", <i>TINS</i> , pages 392-396 (1985)  |
|  | RZ | Vedejs et al., "A Method for Mild Photochemical Oxidation Conversion of Phenacyl Sulfides into Carbonyl Compounds", <i>J. Org. Chem.</i> , <u>49</u> :573-575 (1984)  |
|  | SA | Villa-Komaroff et al., "A bacterial clone synthesizing proinsulin", <i>Proc. Natl. Acad. Sci. USA</i> , <u>75</u> (8):3727-3731 (1978)  |
|  | SB | Vu et al., "Identification and cloning of the Membrane-associated Serine Protease, Hepsin, from Mouse Preimplantation Embryos", <i>J. Biol. Chem.</i> , <u>272</u> (50):31315-31320 (1997)                          |
|  |    | Wagner et al., "Nucleotide sequence of the thymidine kinase gene of herpes simplex virus type 1", <i>Proc. Natl. Acad. Sci. USA</i> , <u>78</u> (3):1441-1445 (1981)  |
|  |    | Wallrapp et al., "A Novel Transmembrane Serine Protease (TMPRSS3) Overexpressed in Pancreatic Cancer", <i>Cancer</i> , <u>60</u> :2602-2606 (2000)  |

TECH CENTER 1600/2900

JAN 09 2003

RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| SE | Walsh <i>et al.</i> , "Gene Therapy for Human Hemoglobinopathies", <i>Proc. Soc. Exp. Biol. Med.</i> , <u>204</u> :289-300 (1993)   |
| SF | Wang <i>et al.</i> , "Rapid Detection of the Two Common Mutations in Ashkenazi Jewish Patients with Mucopolidosis Type IV", <i>Genetic Testing</i> , <u>5</u> (2):87-92 (2001)  |
| SG | Wang, S., "Solid Phase Synthesis of Protected Peptides via Photolytic Cleavage of the $\alpha$ -Methylphenacyl Ester Anchoring Linkage", <i>J. Org. Chem.</i> , <u>41</u> (20):3258-3261 (1976)   |
| SH | Warren <i>et al.</i> , "Spi-1: an hepatic serine protease inhibitor regulated by GH and other hormones", <i>Mol. Cell Endocrinol.</i> , <u>98</u> (1):27-32 (1993)  |
| SI | Watson <i>et al.</i> , "The Fine Structure of Bacterial and Phage Genes", Book: <u>Molecular Biology of the Gene</u> , 4th Ed., The Benjamin/Cummings Pub. Co., <u>1</u> :224 (1987)  |
| SJ | Weaner <i>et al.</i> , "Tritium Labeling Of <i>N</i> -Protected Amino Acids and Peptides Containing <i>O</i> -Alkyl-Tyrosyl Residues", Paper 22, <u>Synthesis and Applications of Isotopically Labelled Compounds</u> , Allen J., Ed., pp. 137-140 (1994) |
| SK | Webber <i>et al.</i> , "Prostate-specific Antigen, a Serine Protease, Facilitates Human Prostate Cancer Cell Invasion", <i>Clin. Cancer Res.</i> , <u>1</u> :1089-1094 (1995)   |
| SL | Wellhöner <i>et al.</i> , "Uptake and Concentration of Bioactive Macromolecules by K562 Cells via the Transferrin Cycle Utilizing an Acid-labile Transferrin", <i>J. Biol. Chem.</i> , <u>266</u> (7):4309-4314 (1991)                                    |
| SM | Werner <i>et al.</i> , "Identification of a Protein-binding Surface by Differential Admide Hydrogen-exchange Measurements", <i>J. Mol. Biol.</i> , <u>225</u> :873-889 (1992)   |
| SN | Whitlock <i>et al.</i> , "Long-term culture of B lymphocytes and their precursors from murine bone marrow", <i>Proc. Natl. Acad. Sci. USA</i> , <u>79</u> :3608-3612 (1982)   |
| SO | Whitlow <i>et al.</i> , "An improved linker for single-chain Fv with reduced aggregation and enhanced proteolytic stability", <i>Protein Engineering</i> , <u>6</u> (8):989-995 (1993)  |
| SP | Woodard <i>et al.</i> , "Chymase-Directed Serine Protease Inhibitor That Reacts with a Single 30-kDa Granzyme and Blocks NK-Mediated Cytotoxicity", <i>J. Immunol.</i> , <u>153</u> :5016-5025 (1994)   |
| SQ | Wong, S.S., Book: Chapter 12, "Conjugation of Proteins to Solid Matrices", <u>Chemistry of Protein Conjugation and Cross Linking</u> , CRC Press, Inc., pp. 295-317 (1993)  |
| SR | Wrighton <i>et al.</i> , "Small Peptides as Potent Mimetics of the Protein Hormone Erythropoietin", <i>Science</i> , <u>273</u> :458-463 (1996)   |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)<br><br>LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | SS | Wu <i>et al.</i> , "Delivery systems for gene therapy", <i>Biotherapy</i> , <u>3</u> :87-95 (1991)   |
|  | ST | Wu <i>et al.</i> , "Receptor-mediated <i>in Vitro</i> Gene Transformation by a Soluble DNA Carrier System", <i>J. Biol. Chem.</i> , <u>262</u> (1):4429-4432 (1987)  |
|  | SU | Xing <i>et al.</i> , "Prevention of Breast Cancer Growth, Invasion, and Metastasis by Antiestrogen Tamoxifen Alone or in Combination with Urokinase Inhibitor B-428", <i>Canc. Res.</i> , <u>57</u> :3585-3593 (1997)  |
|  | SV | Xu <i>et al.</i> , "The Crystal Structure of Bikunin from the Inter- $\alpha$ -Inhibitor Complex: A Serine Protease Inhibitor with Two Kunitz Domains", <i>J. Mol. Biol.</i> , <u>276</u> (5):955-966 (1998)   |
|  | SW | Yahagi <i>et al.</i> , "Complementary DNA Cloning and Sequencing of Rat Enteropeptidase and Tissue Distribution of Its mRNA", <i>Biochem. Biophys. Res. Commun.</i> , <u>219</u> :806-812 (1996)   |
|  | SX | Yamamoto <i>et al.</i> , "Identification of a Functional Promoter in the Long Terminal Repeat of Rous Sarcoma Virus", <i>Cell</i> , <u>22</u> :787-797 (1980)  |
|  | SY | Yamaoka <i>et al.</i> , "Cloning and Characterization of the cDNA for Human Airway Trypsin-like Protease", <i>J. Biol. Chem.</i> , <u>273</u> (19):11895-11901 (1998)  |
|  | SZ | Yamauchi <i>et al.</i> , "Anti-Carcinogenic Effects of a Serine Protease Inhibitor (FOY-305) through the Suppression of Neutral Serine Protease Activity During chemical Hepatocarcinogenesis in Rats", <i>Hiroshima J. Med. Sci.</i> , <u>36</u> (1):81-87 (1987) |
|  | TA | Yan <i>et al.</i> , "Corin, a Mosaic Transmembrane Serine Protease Encoded by a Novel cDNA from Human Heart", <i>J. Biol. Chem.</i> , <u>274</u> (21):14926-14935 (1999)   |
|  | TB | Yan <i>et al.</i> , "Corin, a transmembrane cardiac serine protease, acts as a pro-atrial natriuretic peptide-converting enzyme", <i>PNAS</i> , <u>97</u> (15):8525-8529 (2000)  |
|  | TC | Yanamoto <i>et al.</i> , "Preventive Effect of Synthetic Serine Protease Inhibitor, FUT-175, on Cerebral Vasospasm in Rabbits", <i>Neurosurgery</i> , <u>30</u> (3):351-357 (1992)   |
|  | TD | Yanamoto <i>et al.</i> , "Therapeutic Trial of Cerebral Vasospasm with the Serine Protease Inhibitor, FUT-175, Administered in the Acute Stage after Subarachnoid Hemorrhage", <i>Neurosurgery</i> , <u>30</u> (3):358-363 (1992)                                  |
|  | TE | Yang <i>et al.</i> , "Ecotin: A Serine Protease Inhibitor with Two Distinct and Interacting Binding Sites", <i>J. Mol. Biol.</i> , <u>279</u> :945-957 (1998)  |
|  | TF | Yen <i>et al.</i> , "Synthesis of water-soluble copolymers containing photocleavable bonds", <i>Makromol. Chem.</i> , <u>190</u> :69-82 (1989)   |

TECH CENTER 1600/2900  
JAN 09 2003  
RECEIVED

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**



|   |                                |                          |
|---|--------------------------------|--------------------------|
| FORM PTO-1449 (Modified)  | ATTY. DOCKET NO.<br>24745-1613 | SERIAL NO.<br>10/099,700 |
|   | APPLICANT<br>MADISON et al.    |                          |
|   | FILING DATE<br>March 13, 2002  | GROUP<br>1645            |
| LIST OF PATENTS AND PUBLICATIONS FOR<br>APPLICANT'S INFORMATION DISCLOSURE<br>STATEMENT |                                |                          |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|                       |  |
|-----------------------|--|
| TG                    | Yi <i>et al.</i> , "Bikunin, a Serine Protease Inhibitor, is Present on the Cell Boundary of Epidermis", <i>J. Invest. Dermatol.</i> , <u>113</u> (2):182-188 (1999)   |
| TH                    | York <i>et al.</i> , "Combinatorial Mutagenesis of the Reactive Site Region in Plasminogen Activator Inhibitor I", <i>J. Biol. Chem.</i> , <u>266</u> (13):8495-8500 (1991)  |
| TI                    | Yu <i>et al.</i> , "Message of nexin 1, a serine protease inhibitor, is accumulated in the follicular papilla during anagen of the hair cycle", <i>J. Cell Sci.</i> , <u>108</u> :3867-3874 (1995)   |
| TJ                    | Zallipsky, "Functionalized Poly(ethylene glycol) for Preparation of Biologically Relevant Conjugates", <i>Bioconjugate Chem.</i> , <u>6</u> :150-165 (1995)  |
| TK                    | Zamore <i>et al.</i> , "RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals", <i>Cell</i> , <u>101</u> :25-33 (2000)   |
| TL                    | Zebedee <i>et al.</i> , "Human Combinatorial Antibody Libraries to Hepatitis B Surface Antigen", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :3175-3179 (1992)   |
| TM                    | Zhang <i>et al.</i> , "Distinct Contributions of Residue 192 to the Specificity of Coagulation and Fibrinolytic Serine Proteases", <i>J. Biol. Chem.</i> , <u>274</u> (11):7153-7156 (1999)  |
| TN                    | Zhang <i>et al.</i> , "Modeling <i>Pichia pastoris</i> Growth on Methanol and Optimizing the Production of a Recombinant Protein, the Heavy-Chain Fragment C of Botulinum Neurotoxin, Serotype A", <i>Biotechnol Bioengineering</i> , <u>70</u> (1):1-8 (2000) |
| TO                    | Zhou <i>et al.</i> , "The Vaccinia Virus K2L Gene Encodes a Serine Protease Inhibitor Which Inhibits Cell-Cell Fusion", <i>Virology</i> , <u>189</u> :678-686 (1992)   |
| TP                    | Zijlstra <i>et al.</i> , "Germ-line transmission of a disrupted $\beta_2$ -microglobulin gene produced by homologous recombination in embryonic stem cells", <i>Nature</i> , <u>342</u> :435-438 (1989)  |
| RECEIVED              | Zon, "Oligonucleotide Analogues as Potential Chemotherapeutic Agents", <i>Pharm. Res.</i> , <u>5</u> (9):539-549 (1988)  |
| JAN 09 2003           | Zuckermann <i>et al.</i> , "Efficient Method for the Preparation of Peptoids [Oligo(N-substituted glycines)] by Submonomer Solid-Phase Synthesis", <i>J. Am. Chem. Soc.</i> , <u>114</u> :10646-10647 (1992)   |
| TECH CENTER 1600/2900 | Zuckermann <i>et al.</i> , "Identification of Highest-Affinity Ligands by Affinity Selection from Equimolar Peptide Mixtures Generated by Robotic Synthesis", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :4505-4509 (1992)                                  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**